

## Catalogue 8

Industrial computer

# List of contents

PremiumLine is developed and manufactured by tci in Germany. High quality and best value for money are features of our products.

## Our company





### OEM-Solutions

• About us	
• Individual solutions from tci: OEM	6-7
• Thin Client Terminal	8
• Space-saving and minimum down-time as highest priority	9
• VGA-Display for the food industry	10
• PDA and WLAN	11
• Point of information system	12
• For laboratory technics	13

### Industrial Computer with TFT



• Overview		14-19
• Panel PC 6.4"	 A06-EOS	20-21
• Panel PC 12.1"	A12-3	22-23
	A12-6	24-25
• Panel PC 15"	A15-EMB-PC	26-27
	 A15-EMB-EOS	28-29
	A15-3	30-31
	A15-6	32-33
	A15-14	34-35
	A15-ATX	34-35
• Panel PC 17"	 A17-3	36-37
• Panel PC 19"	 A19-3	38-39
• Workstation 15"	X15-6/KB	40-41
	X15-14/KB	42-43
	X15-ATX/KB	42-43
	W15-10	44-45
	W15-ATX	44-45
• Overview		46-47
• Terminal T15	 T15-EOS	48-49
	T15-ERGO	50-51
	T15-PC65	52-53
	T15-PCOX	54-55
	T15-VGA	56-57
• Mounting solutions		58-59
• Overview		60-61
• Panel PC TARGET	 A12-TARGET	62-63
	 A15-TARGET	64-65
	 A17-TARGET	66-67
	 A19-TARGET	68-69

### Embedded software

• Entering		70-71
• Operating system	 EOS-CE/Windows CE.net	72
	 EOS-XP/Windows XP Embedded	74
	 EOS-LX/Linux	75
• Applications	 EOS-TCL/EOS-WEB/EOS-PLC	73

# List of contents


## LCD monitors with TFT

• Overview		76-77
• Panel Displays	A12-VGA-II	78-79
	A15-VGA-II	80-81
	 A17-VGA	82-83
	 A19-VGA	84-85
	LCD-TERM	86-87

## 19" IPC

• Overview		88-89
• 19" IPC 1 HE	WEB-1/PCI	90
• 19" IPC 2 HE	WEB-2/PCI	91
• 19" IPC 4 HE	IPC-B	92-95
	IPC-ECO	96-97
• 19" IPC 5 HE	IPC-S	98-99
• 19" IPC 7 HE	IPC-3035	100-103

## IPC for wall mounting

• Overview		104-105
	 IPC-TARGET	106-107
	IPC-123	108-109
	IPC-126	108-109
	IPC-153	110-111
	IPC-156	110-111
	IPC-1514	112-113
	IPC-15ATX	112-113
	IPC-700	114
	IPC-1000	115
	IPC-1300	116
	IPC-1500	117

## Accessory and components

• Overview		118-119
• Monitor mounting frame		120
• Mouse systems		121
• Keyboards	Keyboard drawer	122-123
	Travel keyboards	124-125
	Short travel keyboards	126-127
• CPU-Cards		128-129
• Backplanes		130-133
• CompactPower		134
• Watchdog card		135
• UPS		136



## From the vision to the product

### We bring ideas to life

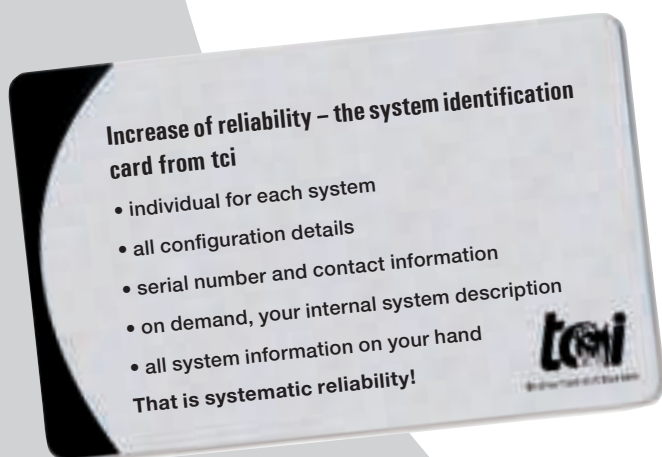
The origin of all our industrial PCs is our own development. Our employees put heart and soul into new concepts, which provide for an optimum integration and performance in automation and process technology. Right from the beginning, we only work with high-quality materials so that every device is allowed to carry the “tci” brand name.

### Let's talk to each other: consulting at tci

Finding the right product for your requirement – this is the aim, which our consultants like to achieve everyday. With our extensive range of industrial PCs we can realise your applications. After a detailed consultation, our sales team will be pleased to recommend the most suitable device and configuration considering both productivity and costs. Due to our “Made in Germany” production, in particular your OEM solution can be realised very promptly.

### Best marks for service and support

“Tci concentrates on service around the customer, not only on the single product.” This credo by Karl-Ulrich Menges (managing director technics) really determines the work of the tci service team before as well as after delivery. This is confirmed by the “mark 1.3” for service, as a result of an independent customer survey.



### „tci is holding a fair – every day!“

As a result of this idea by Michael Böck (managing director marketing and sales), our showroom was built up in October 2004. Far away from the usual fair stress, we present our latest developments at any time. 30 different industrial computers of our product range make our variety touchable.

You will see that you can benefit from a corporate development of solutions meeting your requirements. In a relaxed atmosphere our specialists will give you advice very close to the product.





# Individual solutions from tci: OEM

Apart from constantly optimizing our products, we also like to work on computer solutions for demanding tasks. We work out the ideal solution, for example, installing an IPC by using the least amount of space or producing an industrial computer which is suited for special environmental conditions.

## Planning

If you do not have a complete solution concept for your requirements, we can develop a customized and economic one together. During the project we will support you at any time.

## Construction

In agreement with our customers, prototypes are developed and tested with customer-specific equipment. The most recent PC technology or economic solutions with long-term availability can be implemented.

## Production

Quality and reliability are the most important considerations our customers. During OEM production, the proven test procedures are also implemented in order to ensure quality.

Of course, you can also use OEM solutions from tci with your own design and logo. An OEM system developed by us can thus become your own product. Well-known companies rely on us and develop new systems with tci.

**Some of these projects are briefly described on the following pages.**

## Individual solutions from tci: OEM

### Thin Client – a terminal meeting high hygienic demands

The ultimate rule for producing and packing food is to ensure sterility and hygiene. The basis for this OEM-product is a T15-Terminal with a completely closed chassis and Thin Client software EOS-CE-TCL. As there is no air exchange, the system meets highest hygienic demands.

On customer demand, the system is equipped with a trackball beside the membrane keyboard.





# Individual solutions from tci: OEM

## Space-saving and minimum down-time as highest priority

To reduce the system measurements of 19" and 4U on a cassette slide-in of 75 mm was the challenge for one OEM solution. The system has a height of 173 mm, a width of only 75 mm as well as FDD and CD-ROM in the front. A free slot is available for project specific expansions. The contacting of signals is made possible via a blade-contact strip. With this, the exchange of the computer cassette during maintenance is possible in the least amount of time.



## Individual solutions from tci: OEM

### VGA-Display for the food industry

The VGA-Display with 15.1" TFT has been especially developed for the food industry. It is extra flat and has no rough edges and slits. Cleaning with high-pressure is possible. The display has a touchscreen that is specially protected by a continuous membrane.

Design and constructive conversion lead to a work process in which the human-machine interface is an integral part. Monitor and touchscreen merge with the machine.



# Individual solutions from tci: OEM

## Terminals in manufacturing – MES, PDA, ADA, WLAN

In manufacturing, terminals for Process Data Acquisition (PDA) and Automatic Data Acquisition (ADA) get more and more implemented on the basis of industrial computers. The connection with the LAN is realised by the available ethernet interface. Because of the dust strain occurring in the printing industry, a completely closed chassis for data entry and registration is necessary. The basis of this OEM solution is a T15-Terminal which comes up to these demands.

On customer demand, the system is equipped with an aerial. In this case, data transmission is effected via WLAN. Please see page 47/48 for further information about this system.



## Individual solutions from tci: OEM

### POI – Point Of Information for retailing

POI systems in retailing are used for sales promotion, employee support and consumer advice. Together with our customer we conducted an extensive design study and developed an appealing Panel PC in order to increase consumer satisfaction in electronic stores. The system provides information concerning CDs and audiobooks. By scanning the product's barcode, the customer gets the information via 15" display or speaker.



# Individual solutions from tci: OEM

## Customized front and individual logo for laboratory technics

TCl industrial computer with TFT are available with customized front design. Even if small numbers are ordered, the systems can be offered with individual colour and logo. All industrial computers with TFT have milled fronts made of aluminium. Because of the milled 45° edge between front and display as well as a protective, continuous membrane, the system is more robust and meets highest hygienic demands. This OEM solution has customized colour and logo in order to achieve unique appearance in laboratory environment.

Our system consultants will be glad to give you further information about industrial computer with your individual logo.



# Industrial Computers with TFT

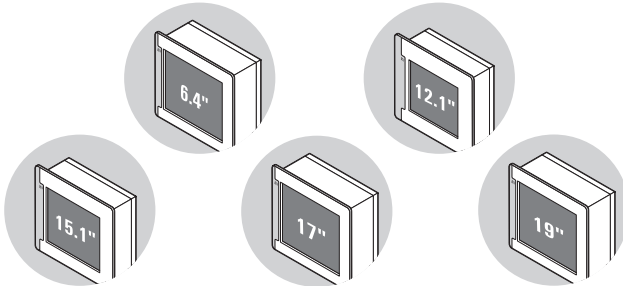


## Perfectly practical – inside and out

As tci has a wealth of experience and know-how, you will find so many excellent and unique solutions in our family of panel PC's – from the Thin Client to the industry workstation and from the small panel PC with integrated UPS to the 19" touch screen system with large backplane. And the bonus is that every single device can be configured according to your individual requirements.

## Panel PC

the flexible series for all requirements



### A-series

- compact dimensions and optimum upgrading possibilities
- TFT display in 6.4", 12.1", 15", 17" or 19"
- motherboard or backplane 2 - 14 slots
- very good price/performance relation
- IPC in metal case (front IP 65)
- also with touch, keyboard and touchpad
- optional is available with integrated UPS

## Modular Panel PC

flexible, service and mounting friendly as panel PC or splitted version

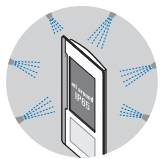


### TARGET-series

- free choice between splitted version and Panel PC
- TFT display in 12.1", 15", 17" or 19"
- flexible of the circumstances mounting situation
- service and mounting friendly - In a service occurrence the units display and IPC box can be splitted with quick release fasteners without tools and can be exchange separatly
- reduction of the versions: Same systems for splitted version and panel-pc

## Terminals

the intelligent and robust terminal and panel pc

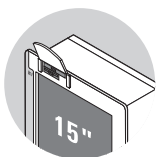


### T15-series

- totally closed case according to IP 65
- as panel PC, machine terminal, PLC operating terminal ThinClient or display only
- 15" TFT display
- connection for closed mounting system
- also with touch, keyboard and touchpad
- product for medicine applications, in compliance with DIN EN 60601

## Workstation

panel PC with direct access drives



### W-series and X-series

- drives accessible from the front, behind protective hinge cover
- TFT display in 15"
- for mounting in operating panel or in 19" rack
- IPC in metal case (front IP 65)
- also with touch, keyboard and touchpad

All products are also available in stainless steel.

# Industrial Computers with TFT



## Constructional characteristics

- overpressure ventilation
- card clamps
- EMC
- splash-proof
- knurled screws
- design





## Embedded Panel PC **A06-EOS**

### 6.4" Terminal

mounting	panel mounting
protection	front IP 65
max. resolution	640x480
outside accessible drives	-
internal drives	-
backplane	embedded board
keyboard	-
machine terminal	-
touch	optional
description	page 20-21



## Monitor with TFT **A12-VGA-II**

## Panel PC **A12-TARGET**

## Panel PC **A12-3**

## Panel PC **A12-6**

### 12.1" TFT

mounting	panel mounting, VESA 75, optional 19"	panel mounting optional 19"	panel mounting optional 19"	panel mounting optional 19"
protection	front IP 65	front IP 65	front IP 65	front IP 65
max. resolution	800x600	800x600	800x600	800x600
outside accessible drives	-	1x CD-ROM (optional)	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM
internal drives	-	1x HDD	1x HDD	1x HDD
backplane	-	embedded board	3-slot	6-slot
keyboard	-	-	-	-
touch	optional	optional	optional	optional
description	page 78-79	page 62-63	page 22-23	page 24-25

# Industrial Computers with TFT

## 15"

	Monitor with TFT <b>A15-VGA-II</b>	Terminal/Monitor <b>T15-VGA</b>
mounting	panel mounting, VESA 75, optional 19"	bracket
protection	front IP65	all around IP65
max. resolution	1024 x 768	1024 x 768
outside accessible drives	-	-
internal drives	-	-
backplane	-	-
keyboard	A15-VGA-II/KB	T15-VGA/KB T15-VGA/MT
touch	optional	optional
description	page 80-81	page 56-57



## 15" Panel PC

	Panel PC <b>A15-TARGET</b>	Embedded Panel PC <b>A15-EMB-EOS</b>	Panel PC <b>A15-EMB-PC</b>
mounting	panel mounting optional 19"	panel mounting optional 19"	panel mounting optional 19"
protection	front IP65	front IP65	front IP65
max. resolution	1024 x 768	1024 x 768	1024 x 768
outside accessible drives	1x CD-ROM (optional)	1xFDD (optional) 1x CD-ROM (optional)	1xFDD (optional) 1x CD-ROM (optional)
internal drives	1 x HDD	1 x HDD	1 x HDD
backplane	embedded board	embedded board	embedded board
keyboard	A15-TARGET/KB	A15-EOS/KB	A15-EMB-PC/KB
touch	optional	optional	optional
description	page 64-65	page 28-29	page 26-27

## 15" Panel PC

	<b>A15-3</b>	<b>A15-6</b>	<b>A15-14</b>	<b>A15-ATX</b>
mounting	panel mounting optional 19"	panel mounting optional 19"	panel mounting optional 19"	panel mounting optional 19"
protection	front IP65	front IP65	front IP65	front IP65
max. resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768
outside accessible drives	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM
internal drives	1 x HDD	1 x HDD	1 x HDD	1 x HDD
backplane	3-slot	6-slot	14-slot	ATX
keyboard	A15-3/KB	A15-6/KB	A15-14/KB	A15-ATX/KB
touch	optional	optional	optional	optional
description	page 30-31	page 32-33	page 34-35	page 34-35

15" Workstation	X15-6/KB	X15-14/KB	X15-ATX/KB	W15-10	W15-ATX
mounting	panel mounting optional 19"	panel mounting optional 19"	panel mounting optional 19"	19" mounting	19" mounting
protection	front IP 65	front IP 65	front IP 65	front IP 65	front IP 65
max. resolution	1024x768	1024x768	1024x768	1024x768	1024x768
outside accessible drives	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM	1 x FDD 1 x CD-ROM
internal drives	1 x HDD	1 x HDD	1 x HDD	1 x HDD	1 x HDD
backplane	6-slot	14-slot	ATX	10-slot	ATX
keyboard	Y	Y	Y	Y	Y
touch	optional	optional	optional	optional	optional
description	page 40-41	page 42-43	page 42-43	page 44-45	page 44-45



15" Terminal	Embedded Panel PC <b>T15-EOS</b>	Panel PC <b>T15-ERGO</b>	Panel PC <b>T15-PC65</b>	Panel PC <b>T15-PCOX</b>
mounting	bracket	bracket	bracket	bracket/ deskstand
protection	all around IP 65	IP 65/IP 52	all around IP 65	IP 65 (excepting connector panel)
max. resolution	1024x768	1024x768	1024x768	1024x768
outside accessible drives	-	1x CD-ROM	-	-
internal drives	-	-	-	-
backplane	embedded board	3-slot	embedded board	embedded board
keyboard	T15-EOS/KB	-	T15-PC65/KB	-
machine terminal	T15-EOS/MT	-	T15-PC65/MT	-
touch	optional	optional	optional	optional
description	page 48-49	page 50-51	page 52-53	page 54-55

## 17" / 19" Panel PC



	<b>A17-VGA</b>	<b>A17-TARGET</b>	<b>A17-3</b>	<b>A19-VGA</b>	<b>A19-TARGET</b>	<b>A19-3</b>
mounting	panel mount optional 19"	panel mount optional 19"	panel mount optional 19"	panel mount optional 19"	panel mount optional 19"	panel mount optional 19"
protection	front IP 65	front IP 65	front IP 65	front IP 65	front IP 65	front IP 65
max. resolution	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024
outside accessible drives	-	1 x CD-ROM (optional)	1 x FDD 1 x CD-ROM	-	1 x CD-ROM (optional)	1 x FDD 1 x CD-ROM
internal drives	-	1 x HDD	1 x HDD	-	1 x HDD	1 x HDD
backplane	-	embedded board	3-slot	-	embedded board	3-slot
keyboard	-	-	-	A19-VGA/KB	A19-TARGET/KB	A19-3/KB
touch	optional	optional	optional	optional	optional	optional
description	page 82-83	page 66-67	page 36-37	page 84-85	page 68-69	page 38-39

# Operating terminal 6.4"



## A06-EOS

The sturdy A06-EOS is the smallest operating terminal of the A-series. It is equipped with a 6.4" TFT and a DiskOn-Chip as hard disk memory. This terminal works with the embedded operating systems and applications offered by tci (see chapter Embedded Software on page 70ff).

For backups and data medium exchanges, USB-Sticks or external drives are applicable. The complete image with operating system can be stored on an USB-Stick.

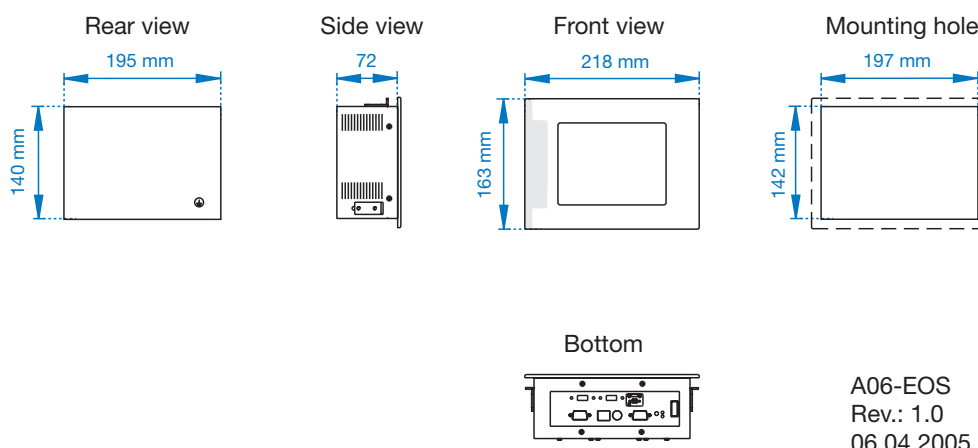
### ① Technical data

- equipped with 6.4" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 640x480, 256 K colours
- optional touch
- steel chassis
- anodised aluminium front IP65  
customized design possible
- optional stainless steel
- convection cooling, no moving parts,  
therefore noiseless and durable
- low power consumption
- ethernet 10/100 Mbps
- interfaces: USB, LPT,  
PS/2 for mouse and keyboard, 1 x RS-232,  
1 x RS-232/422/485, PC/104 socket, Audio

### ⑤ Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %,  
not condensing
- power supply 24 VDC
- weight: 1,8 kg

## ① Drawing



## ② Order information A06-EOS

### Chassis + equipment:

A06-EOS	6.4" TFT, embedded board, ethernet 10/100 Mbps, RAM, FlashDisk
---------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Embedded software (please see page 70):

EOS-CE-BASIS	Software image with Windows CE
EOS-CE-WEB	Software image with Windows CE and WEB-Terminal function
EOS-CE-TCL	Software image with Windows CE and Thin Client function
EOS-CE-PLC	Software image with Windows CE and PLC operating terminal function
EOS-XP-BASIS	Software image with Windows XP embedded
EOS-LX-BASIS	Software image with Linux

### Options:

A06-TS	touch
--------	-------

### Customized:

For other configurations please ask our system consultants.

# Panel PC 12.1"



## A12-3

The A12-3 offers with a mounting depth of only 93 mm up to two free slots as well as internal FDD, CD-ROM and HDD. The closed quality case protects the Panel PC from external influences. The technical configuration can be adjusted to customer's requirements.



Drives



Interfaces

## T Technical data

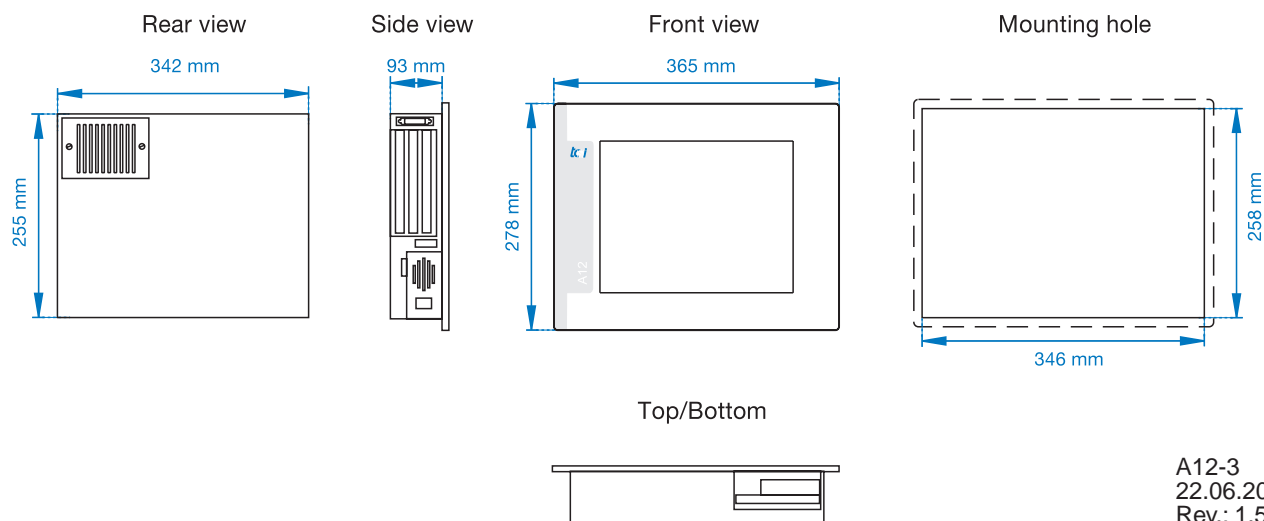
- equipped with 12.1" TFT with thermally pre-stressed, and coated protection glass, 300cd/m<sup>2</sup>, 800x600, 256K colours
- optional touch
- steel chassis
- overpressure venting, filter changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: please see page 128
- backplane, please see page 130
- free slots: 2xPCI or 1xISA and 1xPCI usability depending on technical configuration, please ask our consultants
- individual technical equipment on request
- ethernet 10/100 Mbps

- equipped with FDD, HDD and CD-ROM
- interfaces: 2 x RS-232, Parallel Port, external VGA-port, keyboard port (PS/2), mouse port (PS/2)
- On/Off switch on case side

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight: 7 kg

## ① Drawing



A12-3  
22.06.2005  
Rev.: 1.5

## ① Order information A12-3

### Chassis + equipment:

A12-3	12.1" TFT, backplane BPAS-PISA-03A, CPU-card #3, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
-------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A12-TS	touch
A12-R19	19"-front, 7U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card • temperature-, voltage- and software monitoring • RS-232 and terminal board

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 12.1"



## A12-6

The A12-6 offers maximum safety because of its integrated stand-by battery power supply (UPS). A novelty for a compact Panel PC. This means a secured shut down in case of power failure or emergency shut down. Furthermore, the A12-3 offers more flexibility with up to five free slots. Besides UPS there are also FDD, HDD and CD-ROM installed.



Up to 5 free slots



Internal UPS

## T Technical data

- equipped with 12.1" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 800x600, 256 K colours
- optional touch
- steel chassis
- overpressure venting, filter changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: please see page 128
- backplane, please see page 130
- free slots: 3xPCI and 2xISA or 5xISA
- usability depending on technical configuration, please ask our consultants
- individual technical equipment on request
- ethernet 10/100 Mbps
- equipped with FDD, HDD and CD-ROM

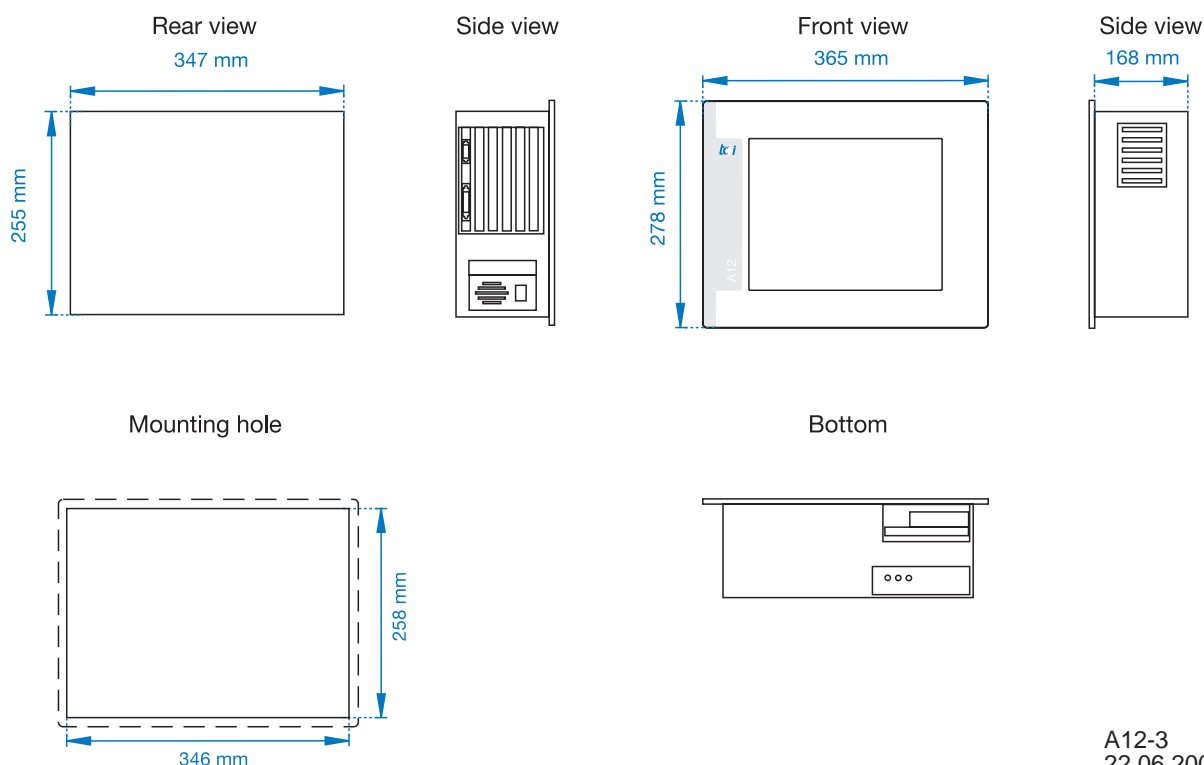
- optional internal UPS
- interfaces:  
2xRS-232, Parallel Port, external VGA-port, keyboard port (PS/2), mouse port (PS/2)
- On/Off switch on case side

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC, optional 12VDC or 24VDC
- weight: 7 kg



## ① Drawing



A12-3  
22.06.2005  
Rev.: 1.5

## ① Order information A12-6

### Chassis + equipment:

A12-6	12.1" TFT, backplane BPAS-PISA-06A, CPU-card #3, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
-------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA
A12-TS	touch
A12-R19	19"- front, 7U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 15"



## A15-EMB-PC

The A15-EMB-PC is a compact and cost effective panel pc with a low installation depth. It is equipped with a 15" TFT and the same powerful embedded board, that we already implemented into the T15-PCs successfully. The advantages of this all-in-one board are the robust assembly and the low power consumption. The A15-EMB-PC is also available with keyboard and glidepad (A15-EMB-PC/KB), and can of course be equipped with touch.

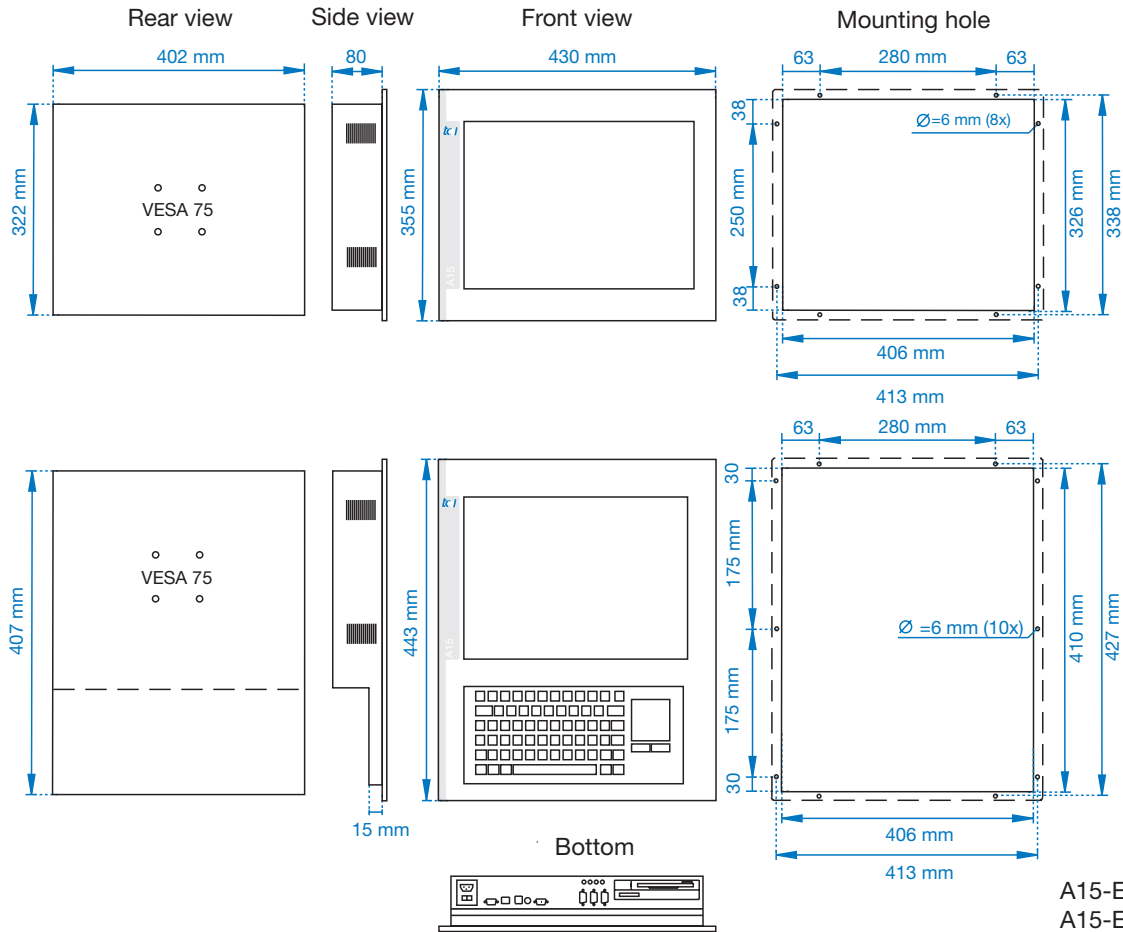
### **T** Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 16.7 Mio. colours
- optional touch
- steel chassis
- milled aluminium front IP65, customized design possible
- optional stainless steel
- low power consumption
- equipped with HDD and slimline CD-ROM, accessible from the bottom
- optional FDD
- embedded board with VIA Eden chipset,
- interfaces:  
ethernet 10/100 Mbps, 2 x USB, LPT, PS/2 for mouse and keyboard, audio, 1 x RS-232/422/485, 2 x RS-232 (optional), PCMCIA Type II (optional)

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC
- weight: 12 kg

## Drawing



A15-EMB-PC /  
A15-EMB-PC/KB  
12.11.2003  
Rev.: 1.0

## Order information A15-EMB-PC

### Chassis + equipment:

A15-EMB-PC	15" TFT, embedded board, VIA Eden chipset, CPU, RAM, ethernet 10/100 Mbps, HDD, slimline CD-ROM
A15-EMB-PC/KB	same as A15-EMB-PC, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A15-TS	touch
A15-R19	19"-front 8 U
FDD-kit	FDD

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 15"



## A15-EMB-EOS

The A15-EMB-EOS is a compact and fanless operating terminal for panel mounting (for a completely closed solution, please see T15-EOS). It works with the embedded operating systems and applications offered by tci (see chapter Embedded Software on page 70).

Equipped with a 15" TFT it can be used as Thin Client, Web- or PLC-operating terminal. The A15-EMB-EOS is also available with keyboard and touchpad (A15-EMB-EOS/KB) and as a matter of course it can be equipped with touchscreen as well.

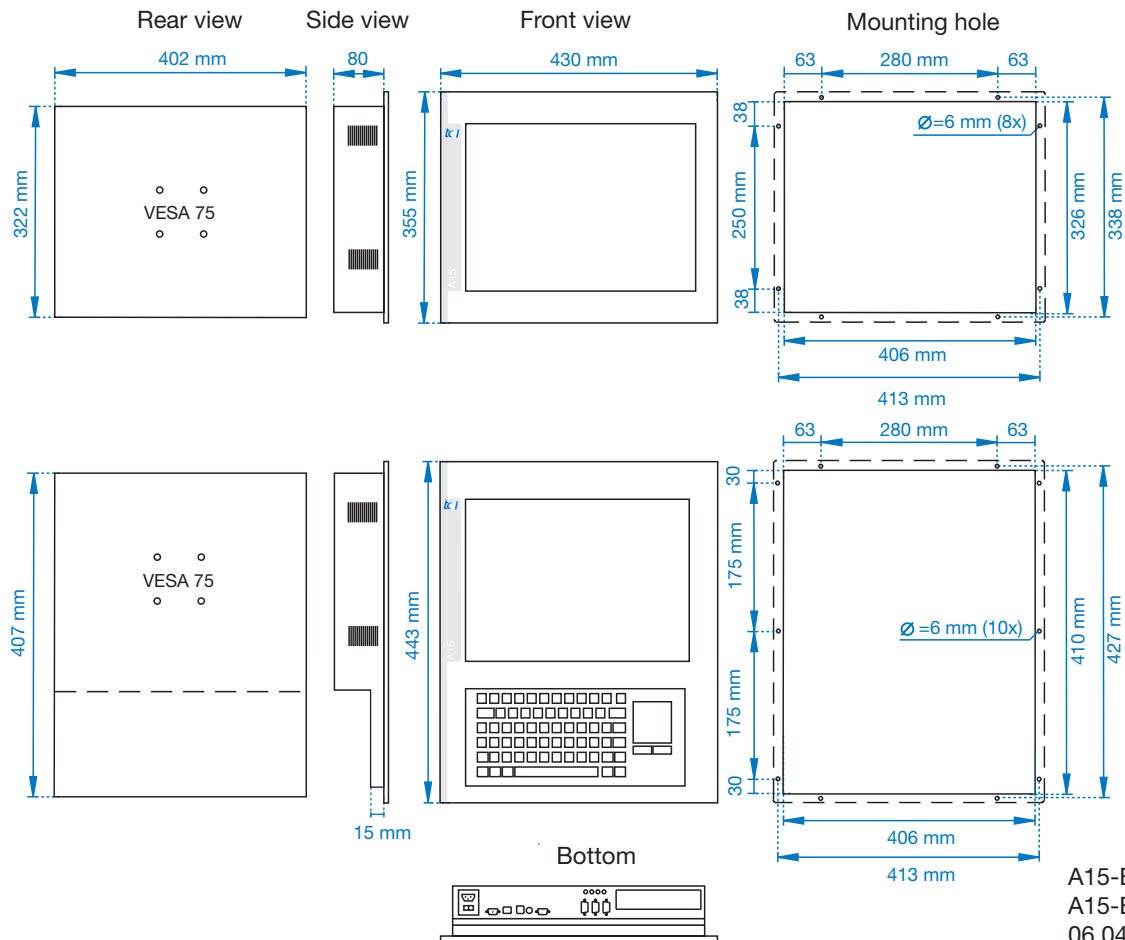
### **T** Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 16.7 Mio. colours
- optional touch
- steel chassis
- milled aluminium front IP65, customized design possible
- optional stainless steel
- convection cooling, no moving parts, therefore noiseless and durable
- low power consumption
- embedded board
- ethernet 10/100 Mbps
- interfaces: USB, LPT, PS/2 for mouse and keyboard, 1 x RS-232, 1 x RS-232/422/485, PC/104 socket, audio

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC  
optional 12 VDC oder 24 VDC
- weight: 13 kg

## Drawing



A15-EMB-EOS /  
A15-EMB-EOS/KB  
06.04.2005  
Rev.: 1.0

## Order information A15-EMB-EOS

### Chassis + equipment:

A15-EMB-EOS	15" TFT, ethernet 10/100 Mbps, RAM, FlashDisk
A15-EMB-EOS/KB	same as A15-EMB-EOS, with keyboard and gliedepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Embedded software (please see page 70):

EOS-CE-BASIS	Software image with Windows CE
EOS-CE-WEB	Software image with Windows CE and WEB-Terminal function
EOS-CE-TCL	Software image with Windows CE and Thin Client function
EOS-CE-PLC	Software image with Windows CE and PLC operating terminal function
EOS-XP-BASIS	Software image with Windows XP embedded
EOS-LX-BASIS	Software image with Linux

### Options:

A15-TS	touch
A15-R19	19"-front 8 U

### Customized:

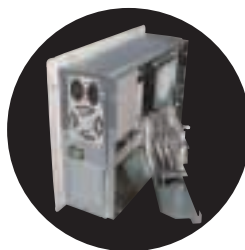
For other configurations please ask our system consultants.

# Panel PC 15"



## A15-3

The standard device of the A-series combines compact measurements with generous internal space. Up to two additional slots are available for your extensions. Optionally equipped with membrane keyboard and glidepad, the A15-3 offers a wide range of applications.



Free PCI slot

## T Technical data

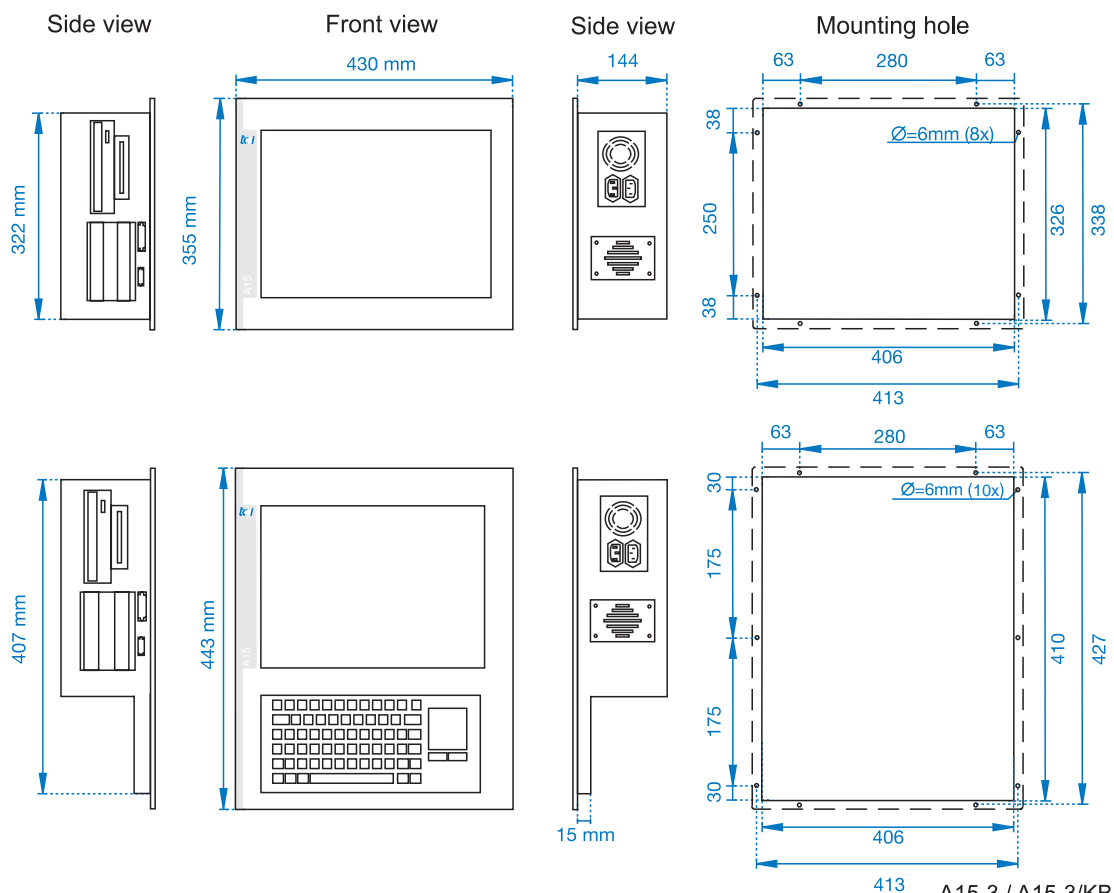
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024 x 768, 64 K colours
- optional touch
- optional membrane keyboard and glidepad
- steel chassis
- overpressure venting, filter changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: please see page 128
- backplane, please see page 130
- free slots: 3 x PCI or 2 x ISA or 5 x ISA
- usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- ethernet 10/100 Mbps

- equipped with FDD, HDD and CD-ROM
- interfaces: USB, LPT, RS-232, RS-232/422/485
- PS/2 for mouse and keyboard
- On/Off switch on case side

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDX
- weight: 13 kg

## Drawing



A15-3 / A15-3/KB  
06.03.2003  
Rev.: 1.4

## Order information A15-3

### Chassis + equipment:

A15-3	15" TFT, backplane BPAS-PISA-03, CPU-card #3, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
A15-3/KB	same as A15-3, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA
A15-TS	touch
A15-R19	19"-front, 8 U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 15"



## A15-6

Up to 5 free slots distinguishes the highly flexible and compact A15-6 from others. Complex measuring and automation applications can be realised with this Panel PC.

### **T** Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 64K colours
- optional touch
- optional membrane keyboard and glidepad
- steel chassis
- overpressure venting, filter changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: please see page 128
- backplane, please see page 130
- free slots: 3xPCI or 2xISA or 5x ISA
- usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- ethernet 10/100 Mbps

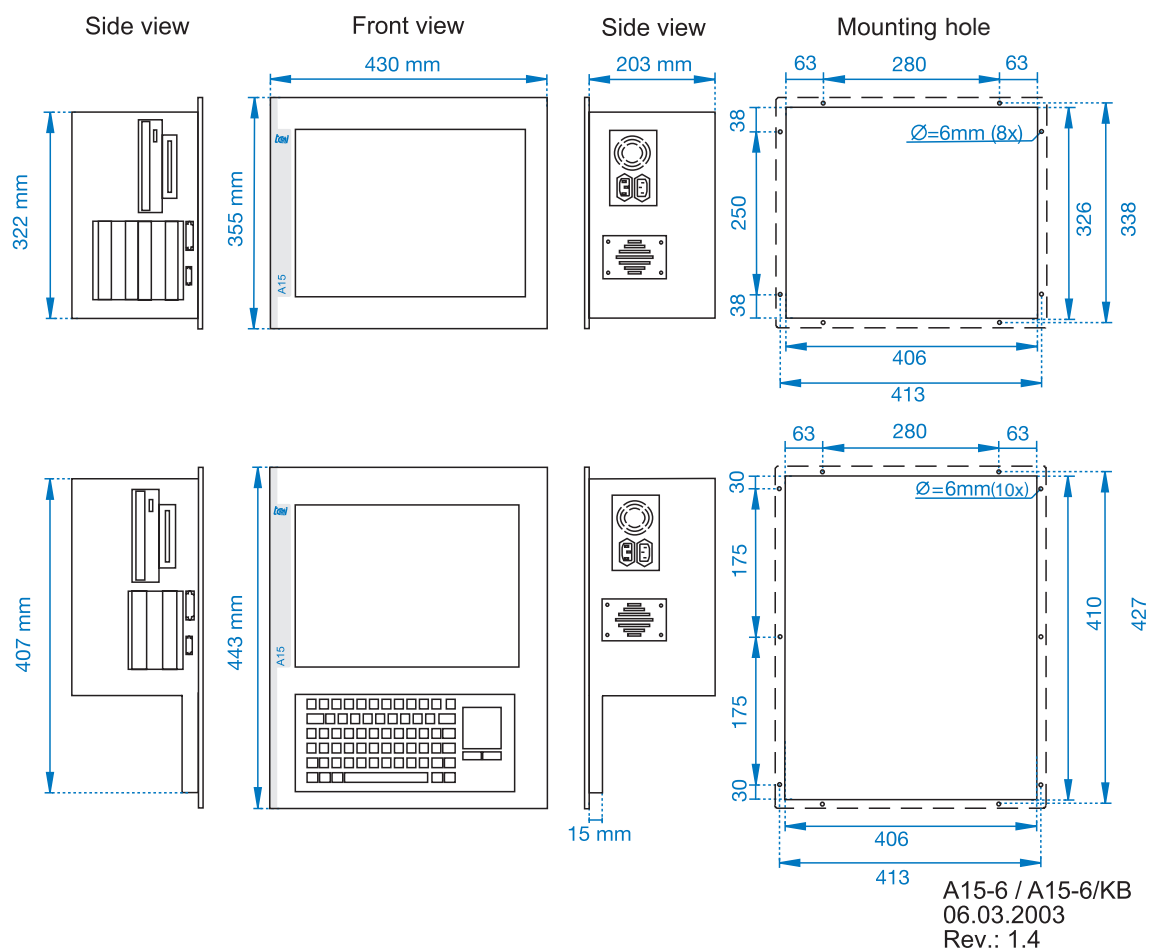
- equipped with FDD, HDD and CD-ROM
- interfaces: USB, LPT, RS-232, RS-232/422/485
- PS/2 for mouse and keyboard
- On/Off switch on case side

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight: 13.5 kg



## Drawing



## Order information A15-6

### Chassis + equipment:

A15-6	15" TFT, backplane BPAS-PISA-06A, CPU-card #3, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
A15-6/KB	same as A15-6, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA
A15-TS	touch
A15-R19	19"- front, 8 U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 15"



## A15-14 and A15-ATX

The A15-14 is a Panel PC with up to 13 free slots. Therefore, the system offers the most flexibility. Together with A15-ATX it forms an extension of the successful A15-Panel-PC-series. The A15-ATX is equipped with an ATX-motherboard. The front is IP65 protected.



Upto 13 free slots, easy access by dismantled card clamps



card clamps

## T Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 64K colours
  - optional touch
  - steel chassis
  - overpressure venting, filter changeable from outside
  - milled aluminium front IP65, customized design possible
  - optional stainless steel
  - ATX-Motherboard or slot-CPU: please see page 128
  - ATX-Motherboard or 14-slot backplane, please see page 130
- free slots:
- A15-14: 4xPCI and 9xISA or 13xISA
- A15-ATX: 4xPCI
- usability depending on technical equipment, please ask our consultants

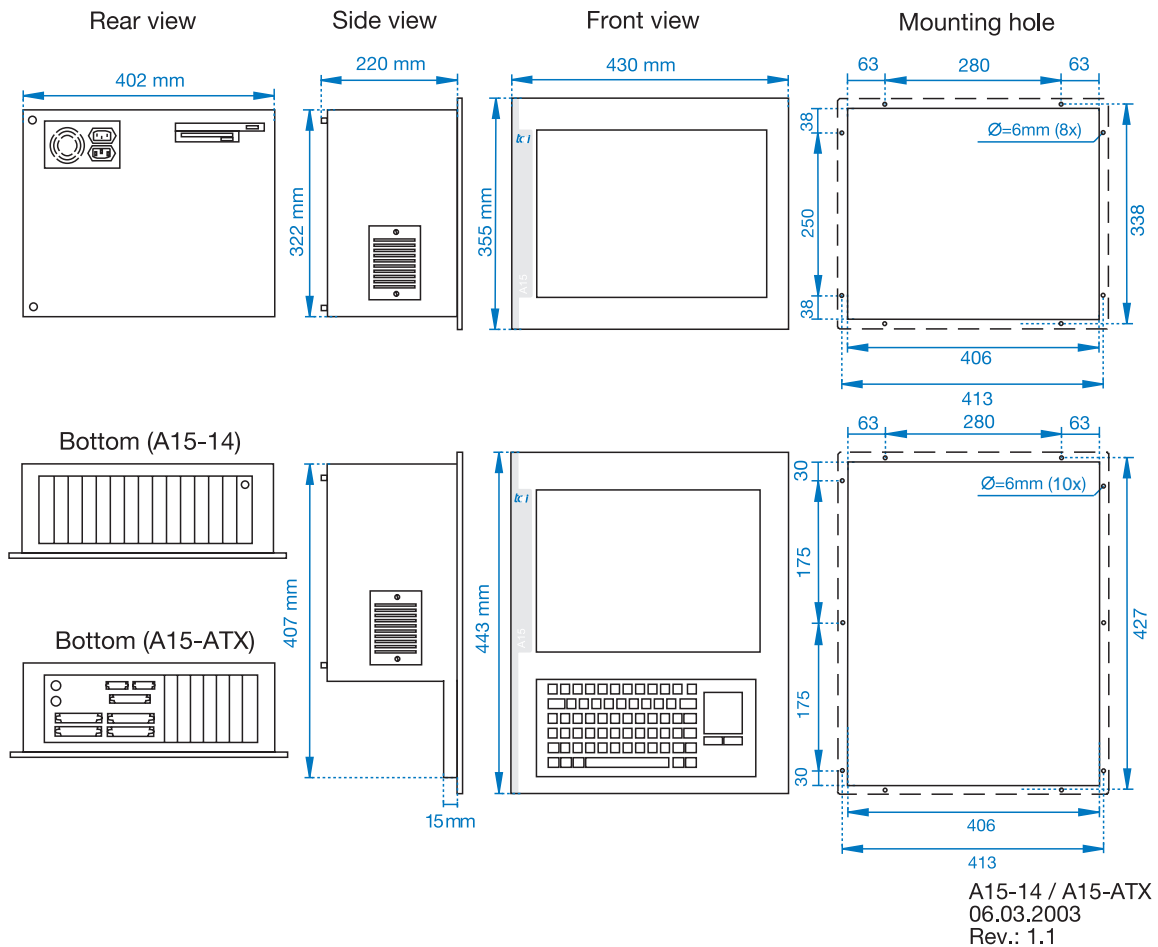
- individual technical equipment by request
- ethernet 10/100 Mbps
- equipped with FDD, HDD and CD-ROM
- interfaces: USB, LPT, RS-232, RS-232/422/485, PS/2 for mouse and keyboard

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight: 13.5 kg

# A15-14 und A15-ATX

## Drawing



## Order information A15-14 and A15-ATX

### Chassis + equipment:

A15-14	15" TFT, backplane BPAS-PISA-14, CPU-card #5, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
A15-14/KB	same as A15-14, with keyboard and glidepad
A15-ATX	15" TFT, ATX Board, Intel CPU, RAM, HDD, FDD, CD-ROM
A15-ATX/KB	same as A15-ATX, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A15-TS	touch
A15-R19	19"- front, 8 U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 17"



## A17-3

The A17-3 features a compact chassis with a built-in depth of only 154mm and additionally it provides 2 free slots. Furthermore, a special characteristic is that it can be equipped with an individual graphic card. The 17" TFT has the same dimension and resolution (1280x1024) like the A19-3, but a smaller screen diagonal and therefore a lower price. So it is an alternative to the A19-3. As option, a front for 19" rack mounting is available.

## **T** Technical data

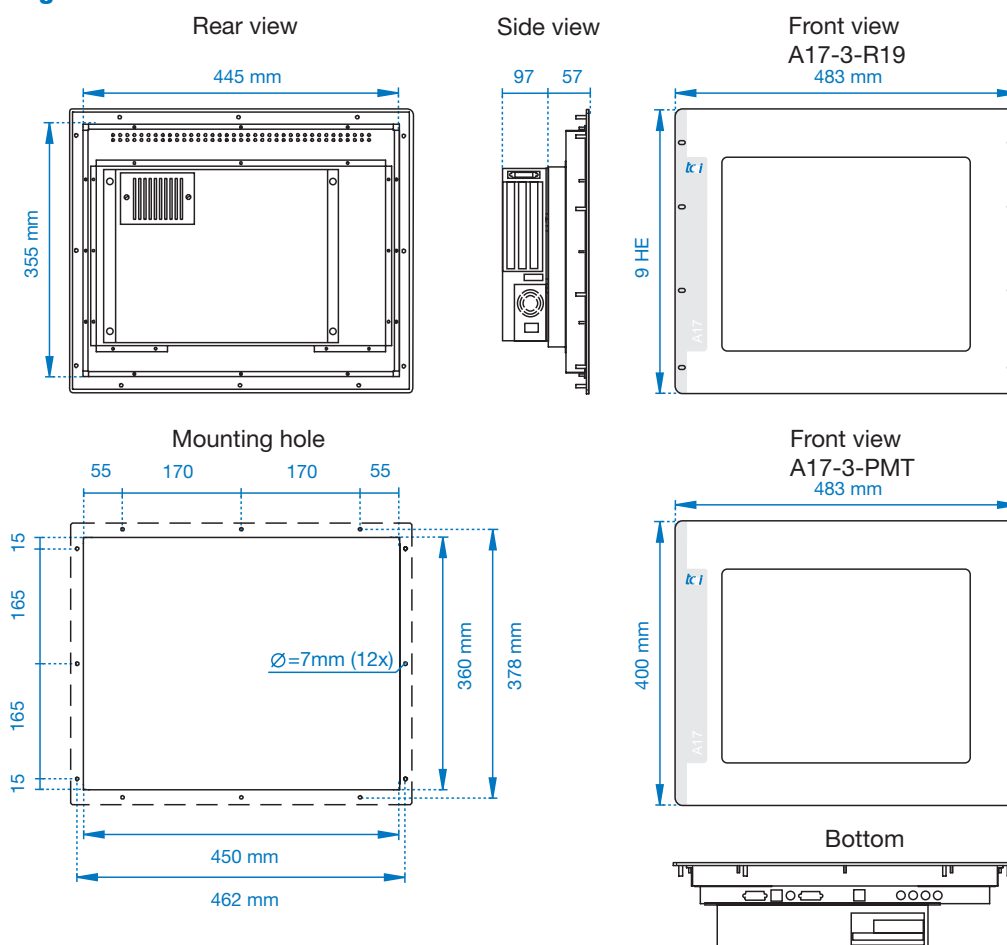
- equipped with 17" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 1280x1024, 16 Mio. colours
- optional touch
- steel chassis
- overpressure venting, changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: see page 128
- backplane: see page 130  
free Slots: 2xPCI or 1xISA and 1 x PCI  
usability depending on technical equipment, please ask our consultant
- individual technical equipment by request
- equipped with FDD, HDD and CD-ROM

- interfaces: ethernet 10/100 Mbps, 2xRS-232, parallel port, external VGA port, PS/2 for mouse and keyboard
- On/Off switch on case side

## **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight: 13 kg

## ① Drawing



A17-3  
22.06.2005  
Rev.: 1.0

## ① Order information A17-3

### Chassis + equipment:

A17-3	17" TFT, backplane BPAS-PISA-03A, CPU-card #5, ethernet, watchdog, RAM, HDD, FDD, CD-ROM
A17-3-R19	same as A17-3 with 19"-front, 9 U

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A17-TS	touch
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdogcard • temperature-, voltage- and software monitoring • RS-232 and terminalboard

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Panel PC 19"

**NEW**



## A19-3

The A19-3 features a compact chassis with a built-in depth of only 154mm and additionally it provides 2 free slots. Furthermore, a special characteristic is that it can be equipped with an individual graphic card. The 19" TFT has the same dimension and resolution (1280x1024) like the A17-3, but a bigger screen diagonal and therefore a better legibility and an easier touch usage. As option, a front for 19" rack mounting is available.

### **T** Technical data

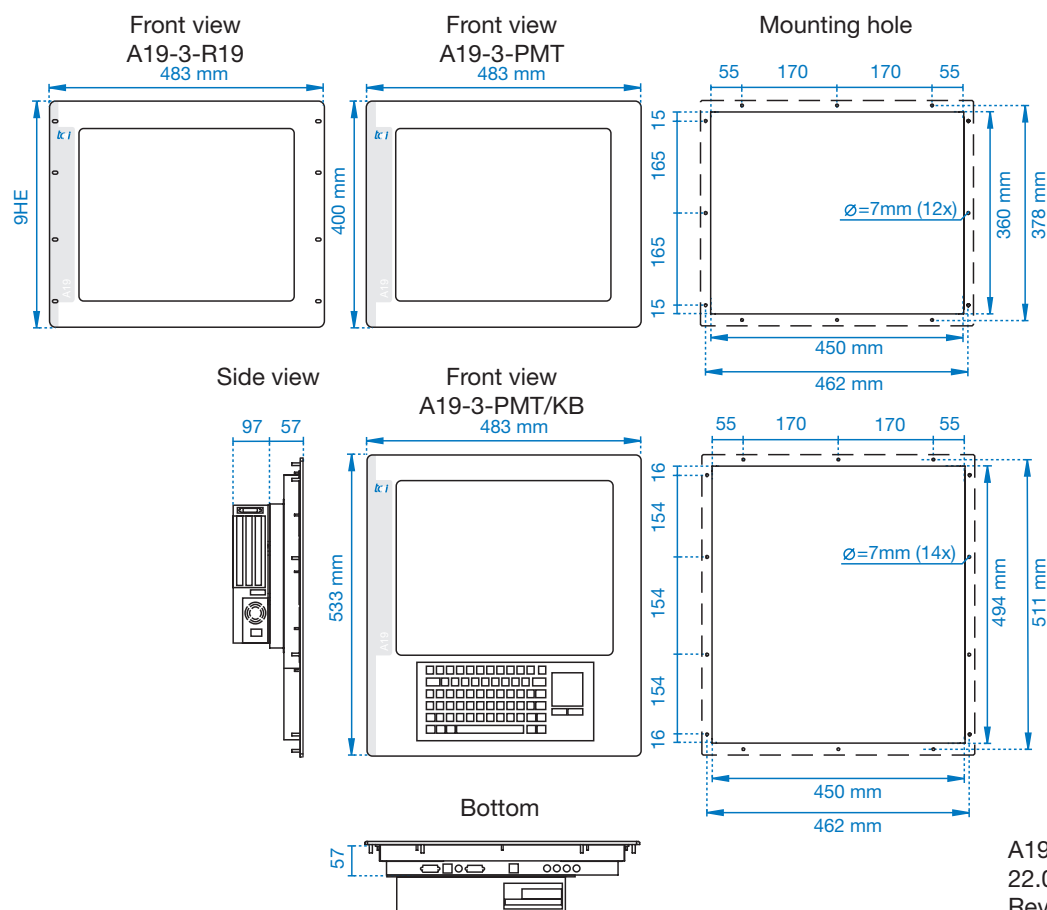
- equipped with 19" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 1280x1024, 16 Mio. colours
- optional touch
- steel chassis
- overpressure venting, changeable from outside
- milled aluminium front IP65, customized design possible
- optional stainless steel
- slot-CPU: see page 128
- backplane: see page 126  
free Slots: 2xPCI or 1xISA and 1xPCI  
usability depending on technical equipment, please ask our consultant
- individual technical equipment by request
- equipped with FDD, HDD and CD-ROM

- interfaces: ethernet 10/100 Mbps, 2x RS-232, parallel port, external VGA port, PS/2 for mouse and keyboard
- On/Off switch on case side

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply  
110/230 VAC, optional 12 VDC or 24 VDC
- weight: 14 kg

## ① Drawing



A19-3  
22.06.2005  
Rev.: 1.0

## ① Order information A19-3

### Chassis + equipment:

A19-3	19" TFT, backplane BPAS-PISA-03A, CPU-card #5, ethernet, watchdog, RAM, HDD, FDD, CD-ROM
A19-3-R19	same as A19-3 with 19"-front, 9 U
A19-3/KB	same as A19-3 with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A19-TS	touch
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminalboard</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

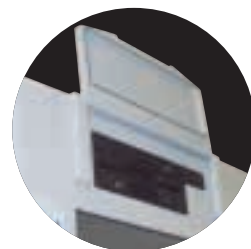
DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Workstation 15"



## X15-6/KB

The X15-6/KB expands tci's PremiumLine and offers an industrial PC with TFT, keyboard and drives accessible from the front.



### **T** Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 64K colours
- optional touch
- steel chassis
- overpressure venting, filter changeable from outside
- front IP65, powder coated RAL9006
- optional stainless steel
- slot-CPU: please see page 128
- backplane: please see page 130
- free slots: 3xPCI and 2xISA or 5xISA  
usability depending on technical equipment,  
please ask our consultants
- individual technical equipment by request
- ethernet 10/100 Mbps
- equipped with FDD, HDD and CD-ROM
- FDD and CD-Rom accessible from the front

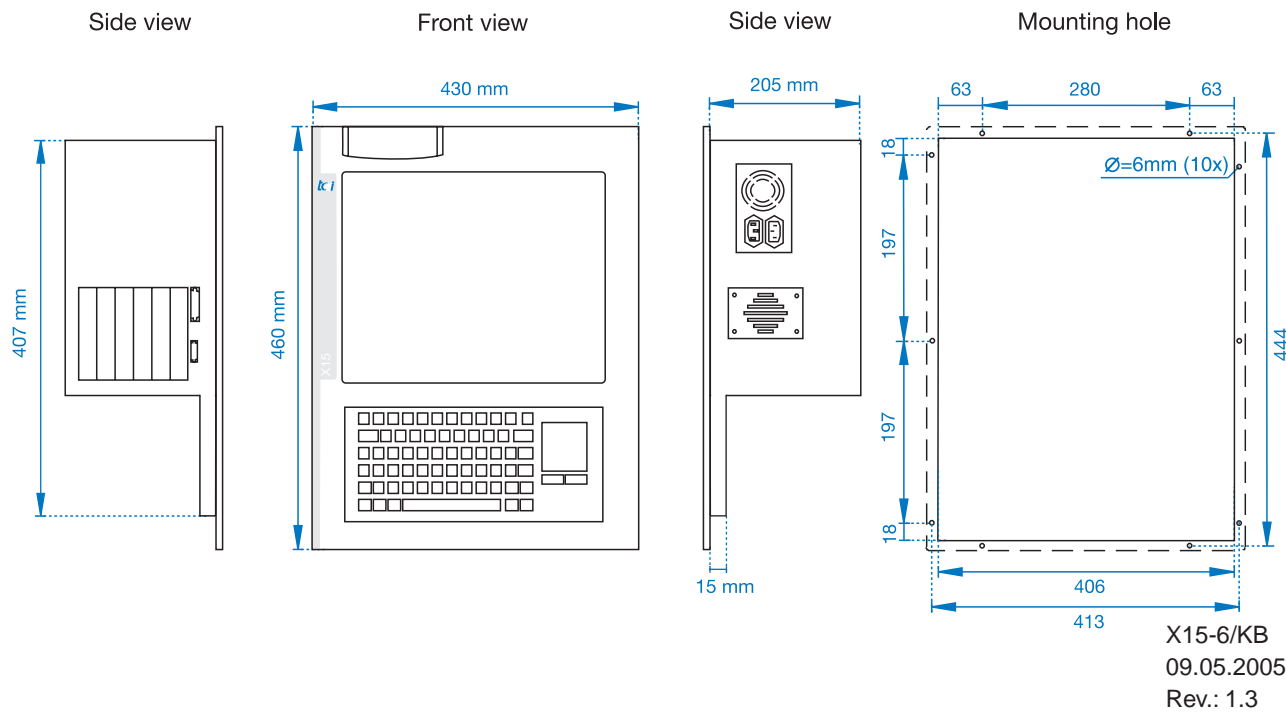
- interfaces: USB, LPT, RS-232, RS-232/422/485  
PS/2 for mouse and keyboard

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight: about 13.5 kg



Drawing



Order information X15-6/KB

Chassis + equipment:

X15-6/KB	15" TFT, backplane BPAS-PISA-06A, CPU-Card #5, Ethernet, Watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM with keyboard and glidepad
----------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

Options:

X15-TS	touch
X15-R19	19"- front, 8U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"><li>• temperature-, voltage- and software monitoring</li><li>• RS-232 and terminal board</li></ul>

Customized:

For other configurations please ask our system consultants.

Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Workstation 15"



## X15-14/KB and X15-ATX/KB

The X15-ATX/KB has a 15" TFT and is equipped with an ATX-motherboard. The X15-14/KB has a 14-slot backplane. They are both suitable for visualization and data logging because the drives are accessible from the front.



X15-14/KB



X15-ATX/KB

## T Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300 cd/m<sup>2</sup>, 1024x768, 64K colours
- optional touch
- steel chassis
- overpressure venting, filter changeable from outside
- front IP65, powder coated RAL9006
- ATX-motherboard or Slot-CPU  
please see page 128
- ATX-motherboard or 14-Slot backplane, page 130  
free slots:  
X15-14: 9xISA and 4xPCI or 13xISA  
X15-ATX: 4xPCI  
Usability depending on technical equipment,  
please ask our consultants
- individual technical equipment by request
- ethernet 10/100 Mbps

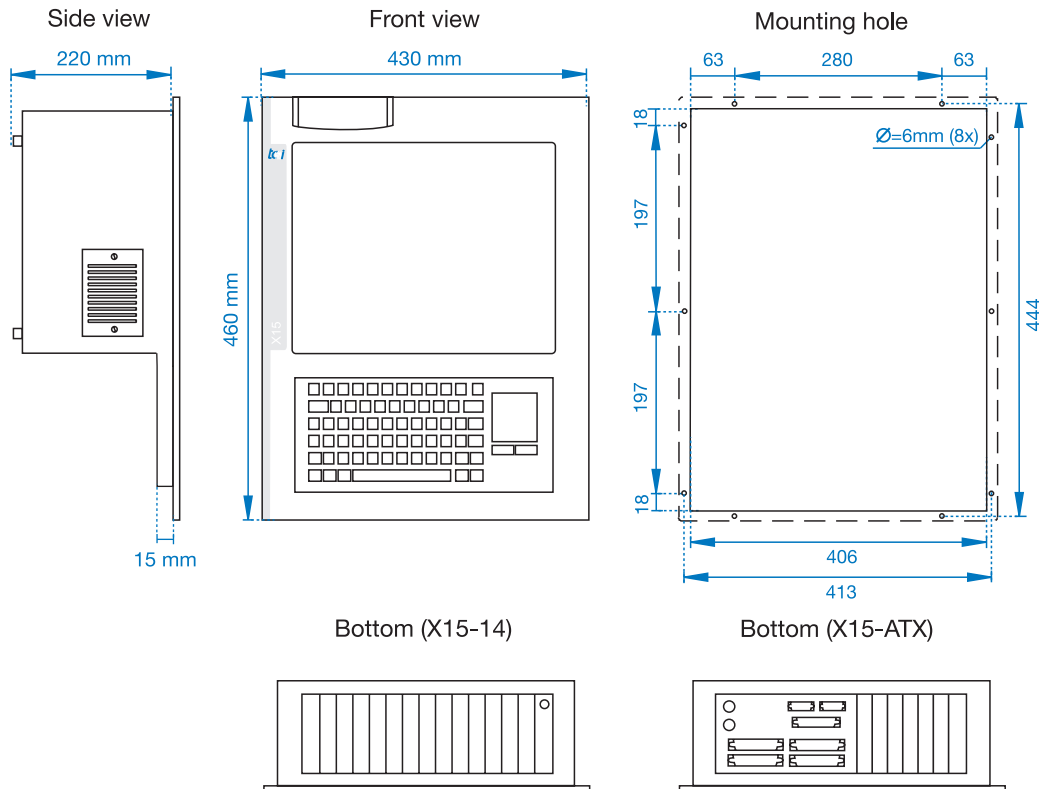
- equipped with FDD, HDD and CD-ROM
- FDD and CD-ROM accessible from the front
- interfaces: USB, LPT, RS-232, RS-232/422/485  
PS/2 for mouse and keyboard)

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply, 110/230VAC, optional 12VDC or 24VDC
- weight: about 13.5kg

# X15-14/KB and X15-ATX/KB

## Drawing



X15-14/KB  
X15-ATX/KB  
09.05.2005  
Rev.: 1.2

## Order information X15-14/KB and X15-ATX/KB

### Chassis + equipment:

X15-14/KB	15" TFT, backplane BPAS-PISA-14, CPU-card #5, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM with keyboard and glidepad
X15-ATX/KB	15" TFT, ATX board, Intel CPU, RAM, HDD, FDD, CD-ROM with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

X15-TS	touch
X15-R19	19"- front, 8 U
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Workstation 15"



## W15-10 and W15-ATX

The 19" Workstation from tci is equipped with a 15" TFT and is available with either motherboard (W15-ATX) or 10-slot backplane (W15-10). Furthermore, the workstation is equipped with keyboard and glidepad. The drives are behind an IP 65 protection cover.



FDD, CD-ROM, PS/2 port,  
behind protection cover

## **T** Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 1024x768, 64K colours
  - optional touch
  - milled aluminium front IP65, customized design possible
  - steel chassis
  - overpressure venting, filter changeable from outside
  - front IP65, powder coated RAL9006
  - optional stainless steel
  - ATX-motherboard or Slot-CPU, please see page 128
  - ATX-motherboard or 10-Slot Backplane, please see page 130
- free Slots:  
W15-10: 5xISA and 4xPCI or 9xISA  
W15-ATX: 4xPCI
- usability depending on technical equipment,  
please ask our consultants

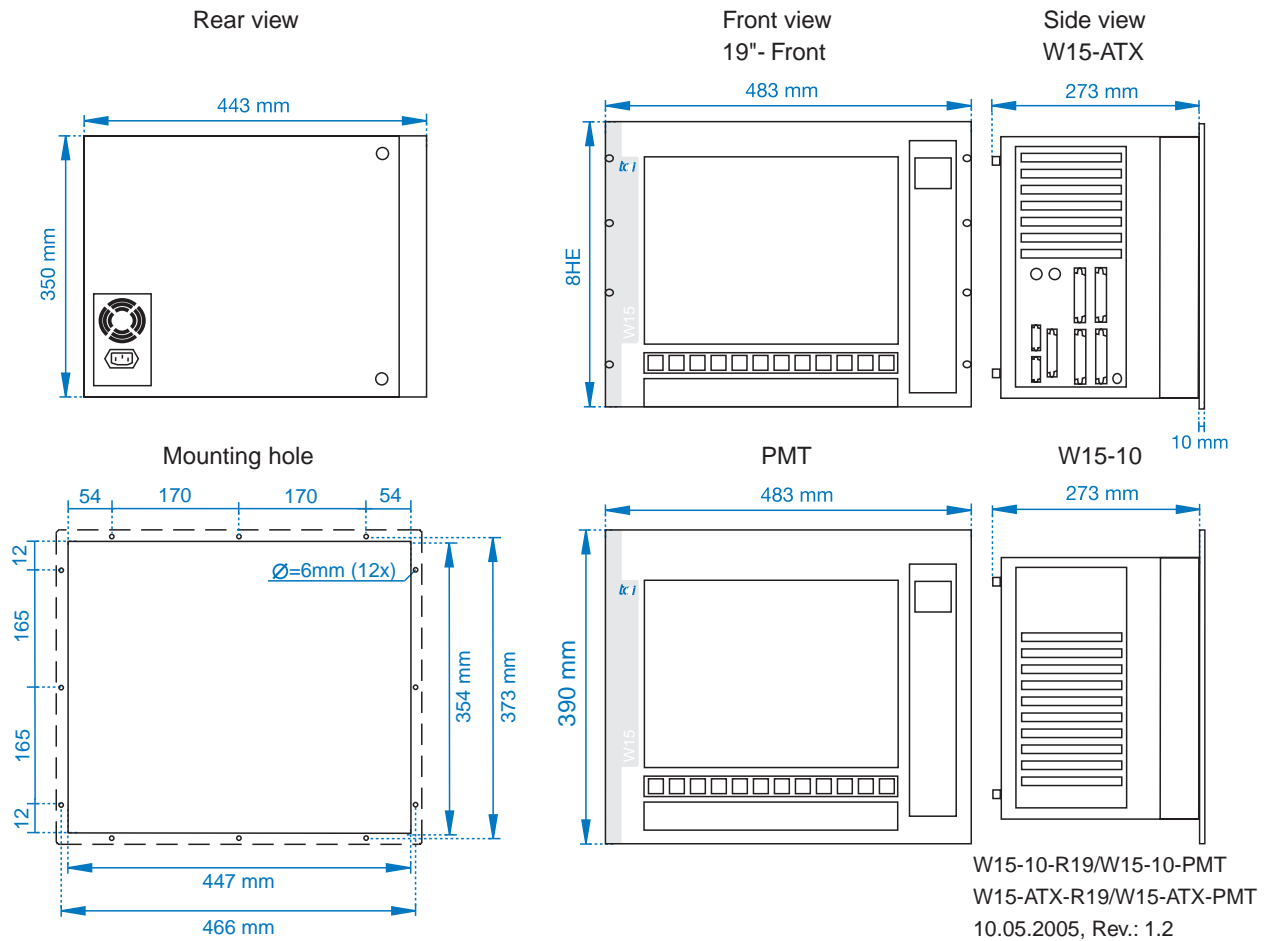
- individual technical equipment by request
- ethernet 10/100Mbps
- equipped with FDD, HDD and CD-ROM
- FDD and CD-ROM accessible from the front
- interfaces: USB, LPT, RS-232, RS-232/422/485, PS/2 for mouse and keyboard

## **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- Internal power supply 110/230VAC, optional 12VDC or 24VDC
- weight: about 16 kg

# W15-10 and W15-ATX

## Drawing



## Order information W15-10 and W15-ATX

### Chassis + equipment:

W15-10-R19	Workstation with 15" TFT, backplane BPAS-PISA-10, CPU-card #5, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
W15-10-PMT	same as W15-10-R19 for panel mounting
W15-ATX-R19	Workstation with 15" TFT, ATX board Intel CPU, RAM, HDD, FDD, CD-ROM
W15-ATX-PMT	same as W15-ATX-R19 for panel mounting

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

W15-TS	touch
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

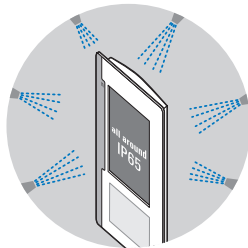
### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others


# Terminal T15



## Terminal T15 For hard environmental conditions

The completely closed chassis of the T15-series meets IP 65 and applies quite well to hard environmental conditions like e.g. dust and spray water. The [cooling concept](#) of the T-Series contains a convection cooling in all systems. This ensures an increase of longevity. A flexible wall mounting can be realised with standardised arms and without an additional case. Alternatively, all systems can be equipped with touch.

<b>15" Terminal</b>	Terminal/Monitor <b>T15-VGA</b>
mounting	bracket
protection	all around IP65
max. resolution	1024 x 768
outside accessible drives	-
internal drive	-
backplane	-
keyboard	T15-VGA/KB T15-VGA/MT
touch	optional
description	page 56-57

<b>15" Terminal</b>	 Embedded Panel PC <b>T15-EOS</b>	Panel PC <b>T15-ERGO</b>	Panel PC <b>T15-PC65</b>	Panel PC <b>T15-PCOX</b>
mounting	bracket	bracket	bracket	bracket/ deskstand
protection	all around IP65	IP 65/IP 52	all around IP 65	IP 65 (excepting connector panel)
max. resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768
outside accessible drives	-	1 x CD-ROM	-	-
internal drives	-	-	-	-
backplane	embedded board	3-slot	embedded board	embedded board
keyboard	T15-EOS/KB	-	T15-PC65/KB	-
machine terminal	T15-EOS/MT	-	T15-PC65/MT	-
touch	optional	optional	optional	optional
description	page 48-49	page 50-51	page 52-53	page 54-55

# Terminal T15

fanless



## T15-EOS

The T15-EOS is a completely closed and fanless operating terminal which meets IP65. It works with the embedded operating systems and applications offered by tci (see chapter Embedded Software on page 70ff).

Equipped with a 15" TFT it can be used as Thin Client, Web- or SPS-operating terminal in hard environment. The machine terminal T15-EOS/MT offers the possibility to customise the elements and buttons on the control panel. So the system is able to meet specific requirements.



T15 with scanner

## T Technical data

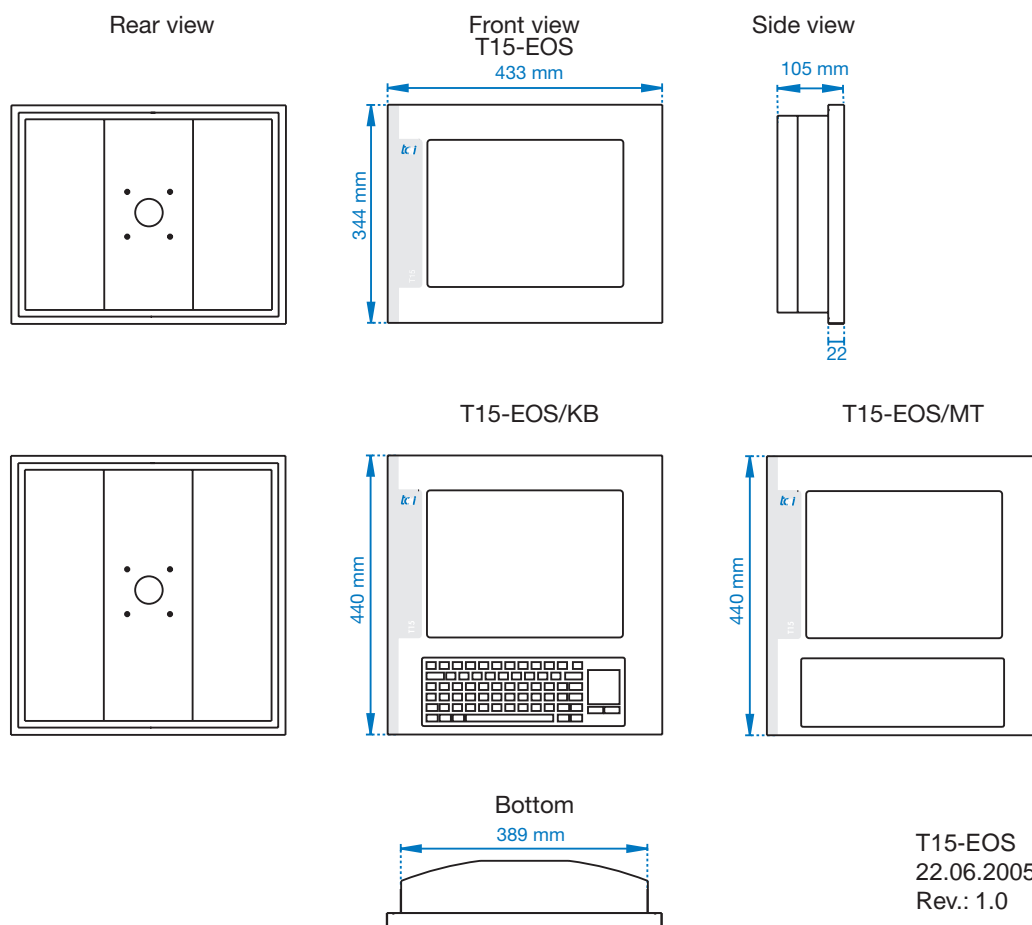
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 1024x768, 64K colours
- optional touch or NFI-touch
- aluminium chassis all around IP 65
- milled aluminium front, customized design possible
- optional stainless steel
- connection for closed wall mounting system
- convection cooling, no moving parts, therefore noiseless and durable
- low power consumption
- embedded board with VIA Eden chipset
- interfaces:
  - ethernet 10/100 Mbps, 2xUSB, LPT, PS/2 for mouse and keyboard, audio, 1 x RS-232/422/485, 2 x RS-232 (optional), PCMCIA Type II (optional)

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC
- weight: 6 kg



## Drawing



## Order information T15-EOS

### Chassis + equipment:

T15-EOS	15" TFT, embedded Board, VIA Eden Chipsatz, CPU, RAM, DOC, Ethernet 10/100 Mbps
T15-EOS/KB	same as T15-EOS, with keyboard and glidepad
T15-EOS/MT	same as T15-EOS as machine terminal, configurable operating parts

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

T15-TS	Touch
T15-TS-NFI	NFI Touch
T15-platform	for keyboard and mouse
T15-USB	USB connection IP 65 from rear side
T15-SER	Serial connection IP 65 from rear side
T15-LAN	ethernet 10/100 Mbps connection IP 65 from rear side

### Embedded software (please see page 70):

EOS-CE-BASIS	Software image with Windows CE
EOS-CE-WEB	Software image with Windows CE and WEB-Terminal function
EOS-CE-TCL	Software image with Windows CE and Thin Client function
EOS-CE-PLC	Software image with Windows CE and PLC operating terminal function
EOS-XP-BASIS	Software image with Windows XP embedded
EOS-LX-BASIS	Software image with Linux

### Customized:

For other configurations please ask our system consultants.

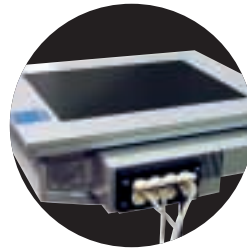
# Terminal T15



## T15-ERGO

The T15-ERGO integrates the well-known A15-ERGO into the T15-series. The advantages of the T-series and the flexibility of the A15-ERGO are combined in this new product. Thereby the T15-ERGO offers an aluminium chassis front according to IP 65.

The from the bottom accessible connection panel has FDD and CD-ROM. The flexibility of the T15-ERGO is grounded by two additional free slots.



cable support with strain relief



connection panel  
T15-ERGO

## Technical data

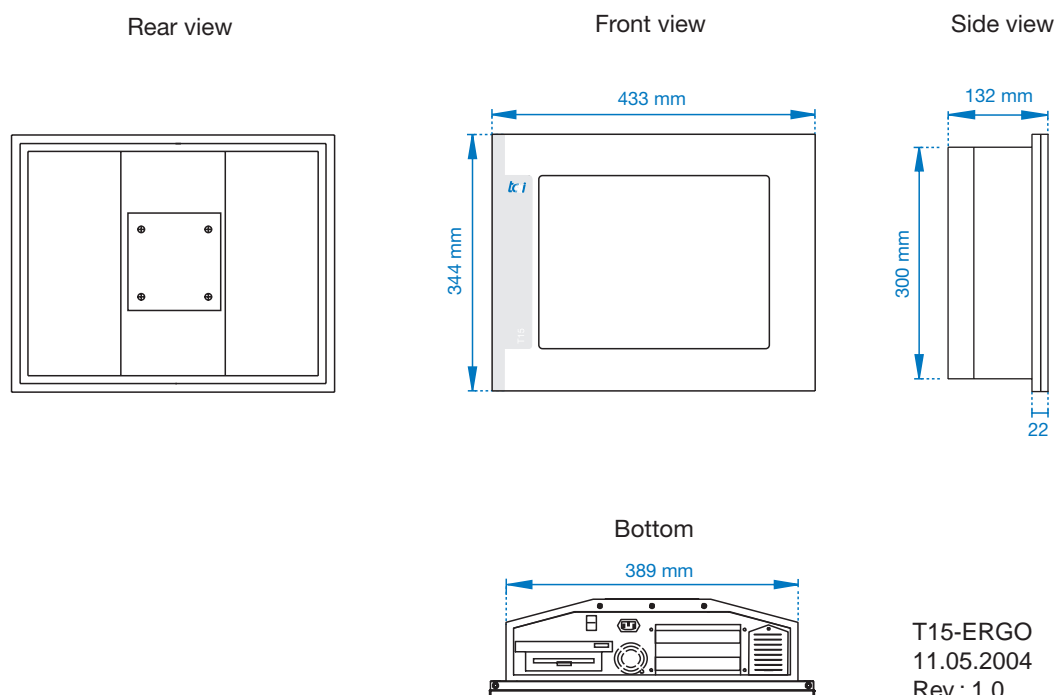
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 1024x768, 64K colours
- optional touch or NFI-touch
- aluminium chassis
- milled aluminium front IP65, rear side IP52, customized design possible
- connection VESA 100
- Slot-CPU: please see page 128
- backplane, free slots: 2xPCI or 1xISA and 1xPCI. Usability depending on technical equipment, please ask our consultants
- equipped with HDD, CD-ROM and FDD, accessible from the bottom

- interfaces:  
ethernet 10/100 Mbps, USB, LPT, RS-232, RS-232/422/485, PS/2 for mouse and keyboard, W-LAN (optional)
- connection panel and operating parts accessible from the bottom

## Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC
- weight: 6 kg

## ① Drawing



## ② Order information T15-ERGO

### Chassis + equipment:

T15-ERGO	15" TFT, backplane BPAS-03, CPUcard, ethernet 10/100 Mbps, watchdog, RAM, HDD, FDD, CD-ROM
----------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

T15-TS	touch
T15-TS-NFI	NFI touch
T15-platform	for mouse and keyboard
T15-ERGO-AFG	cable support with strain relief for T15-ERGO

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Terminal T15



## T15-PC65

The T15-PC65 is a high-performing panel PC. Its functionality is integrated into a light, completely closed aluminium chassis according IP65, that corresponds to hygienic requirements. Due to the light weight chassis it can be used on standardised wall mounting arms. The nonventilated chassis with internal air circulation, that prevents any air exchange between the chassis and the environment offers homogeneous temperature distribution. Besides the powder-coated aluminium front a stainless steel chassis is available, to meet the requirements of food production, pharmaceutical or chemical industries.



T15 with scanner



all around protected chassis  
IP 65 (stainless steel)

## **T** Technical data

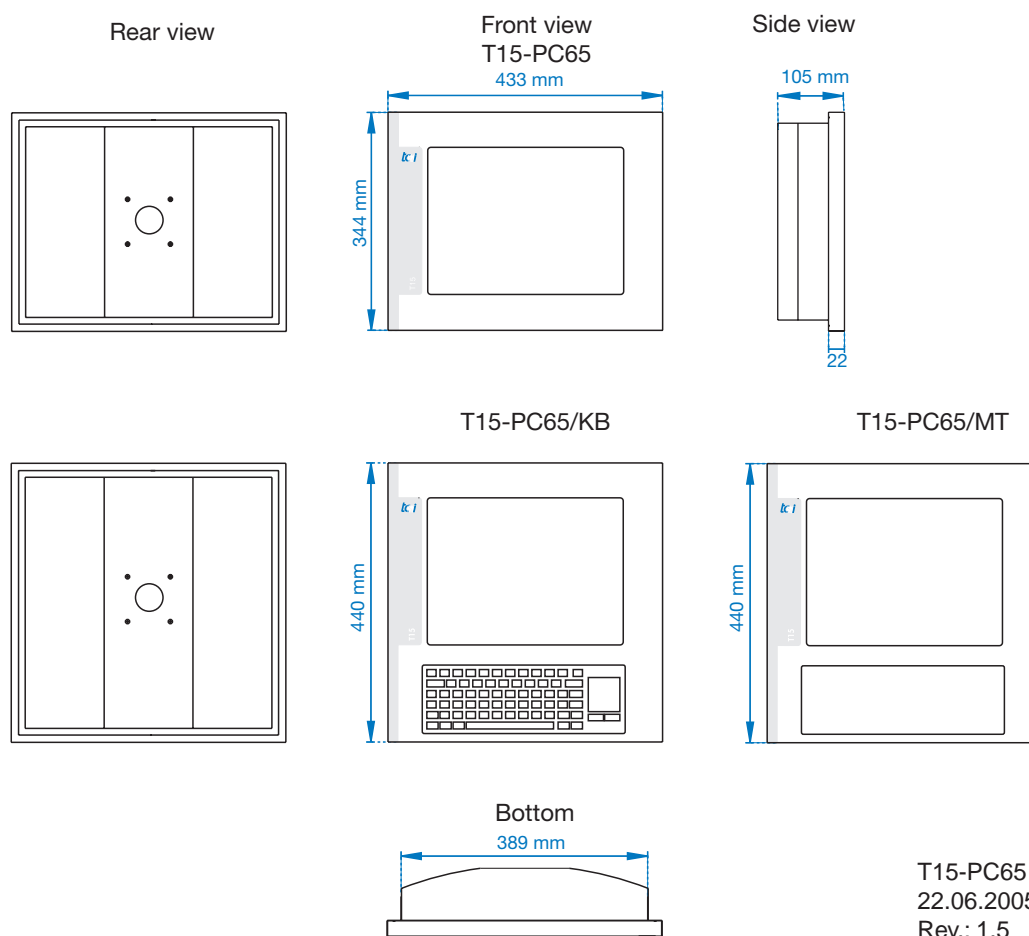
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 1024x768, 16.7 Mio. colours
- optional touch or NFI-touch
- aluminium chassis IP65
- milled aluminium front IP65, customized design possible
- optional stainless steel
- connection for closed wall mounting system
- low power consumption
- embedded board with VIA Eden Chipset

- interfaces:  
ethernet 10/100Mbps, 2xUSB, LPT, PS/2 for mouse and keyboard, audio, 1xRS-232/422/485, 2xRS-232 (optional), PCMCIA Type II (optional)

## **S** Specifications

- working temperature: 0 up to 40 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC
- weight: 6 kg

## ① Drawing



## ② Order information T15-PC65

### Chassis + equipment:

T15-PC65	15" TFT, embedded board, VIA Eden chipset, CPU, RAM, ethernet 10/100 Mbps, HDD
T15-PC65/KB	same as T15-PC65, with keyboard and glidepad
T15-PC65/MT	same as T15-PC65 as machine terminal, configurable operating parts

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

T15-TS	touch
T15-TS-NFI	NFI touch
T15-platform	for mouse and keyboard
T15-USB	USB connection IP65 from rear side
T15-SER	Serial connection IP65 from rear side
T15-LAN	ethernet 10/100 Mbps connection IP65 from rear side

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Terminal T15



technical  
built-up

DIN EN 60601

## T15-PCOX

The T15-PCOX is a high-performing panel PC in a light weight aluminium chassis, that meets high hygienic requirements. The connection panel is accessible from the bottom. It is equipped with a 15" TFT and an embedded board that offers considerable advantages to the user. Due to the minor development of heat at the processor, the nonconvented T15-PCOX needs only an internal air circulation, that prevents homogenous temperature. It can be used for industrial data capture or as an operating terminal or in the medical technology.



T15-PCOX  
with deskstand



T15 platform for  
mouse and keyboard



Connection panel  
T15-PCOX

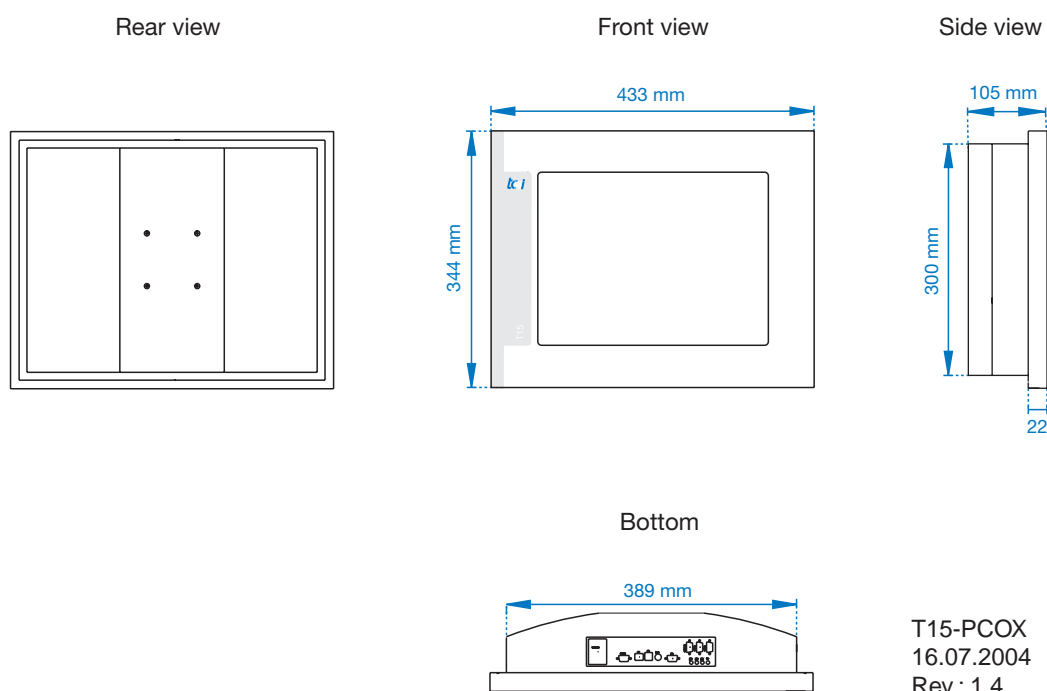
## T Technical data

- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 1024x768, 16.7 Mio. colours
- optional touch or NFI-touch
- aluminium chassis IP65
- milled aluminium front IP65, customized design possible
- optional stainless steel
- connection for closed wall mounting system
- low power consumption
- embedded board with VIA Eden Chipset
- interfaces:
  - ethernet 10/100Mbps, 2xUSB, LPT, PS/2 for mouse and keyboard, audio, 1xRS-232/422/485, 2xRS-232 (optional), PCMCIA Type II (optional)

## S Specifications

- working temperature: 0 up to 40 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC
- weight: 6 kg

## ① Drawing



## ② Order information T15-PCOX

### Chassis + equipment:

T15-PCOX	15" TFT, embedded board, VIA Eden Chipsatz, CPU, HDD, RAM, ethernet 10/100 Mbps
----------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

T15-TS	touch
T15-TS-NFI	NFI touch
T15-deskstand	deskstand for T15-PCOX, horizontal swivel mounting, RAL 9006, available as table- and wallmounting
T15-platform	for keyboard and mouse

### Customized:

For other configurations please ask our system consultants.

### Operating system:

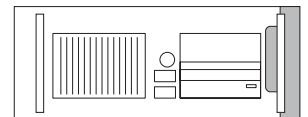
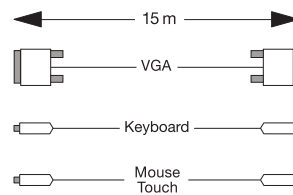
DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

# Terminal T15



## T15-VGA

Due to its compact and completely closed chassis (IP 65) the LCD T15-VGA is an ideal solution for demanding environments. The 15" TFT ensures a brilliant display and the complete system can be upgraded to a version including keyboard and glidepad.



## Technical data

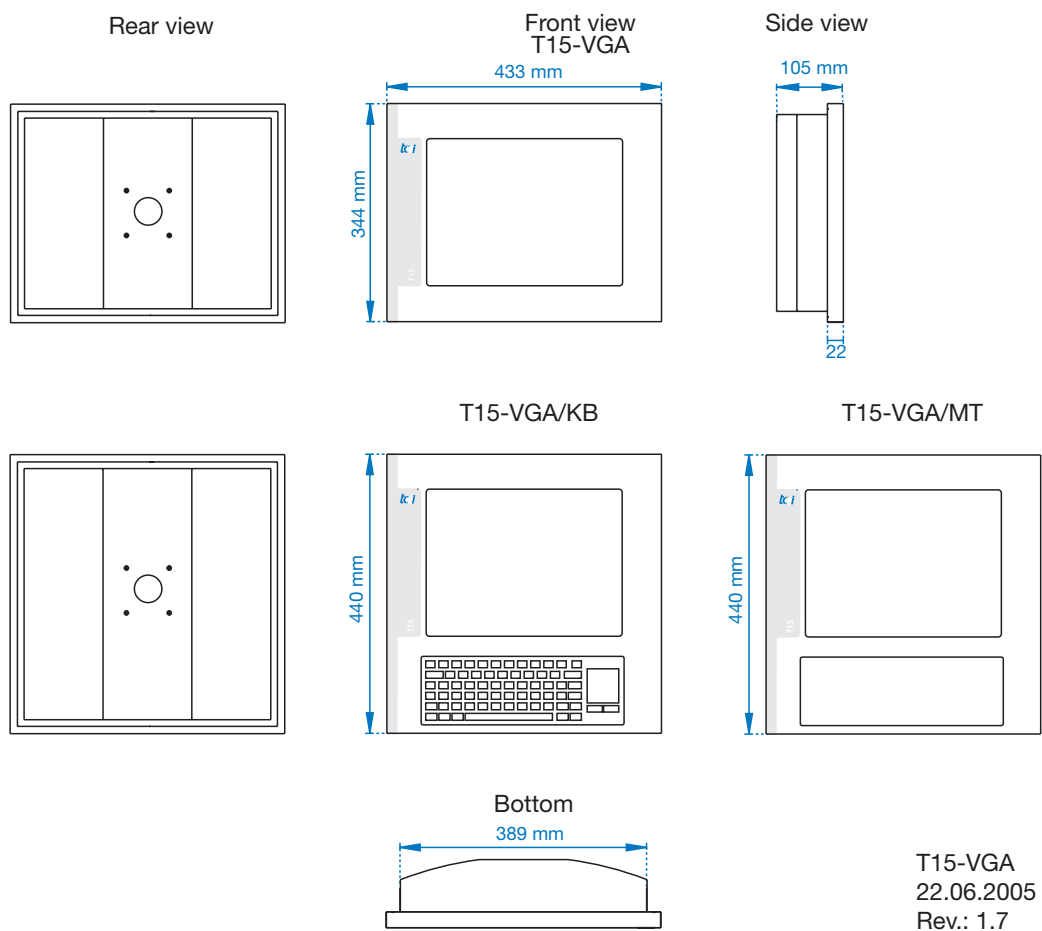
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 1024x768, 16.7 Mio. colours
- optional touch
- aluminium chassis IP 65
- milled aluminium front IP 65, customized design possible
- optional stainless steel
- connection for closed wall mounting system
- optional keyboard and touchpad

## Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC
- weight: 6 kg



Drawing



Order information T15-VGA

Chassis + equipment:

T15-VGA	Panel Display 15"
T15-VGA/KB	same as T15-VGA, with keyboard and touchpad
T15-VGA/MT	same as T15-VGA as machine terminal, configurable operating parts

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

Options:

T15-TS	touch
T15-TS-NFI	NFI touch
T15-platform	for keyboard and mouse

# Mounting solutions for flexible application

Due to various arm mounting systems we can achieve an ideal and ergonomic PC working environment. For this purpose, arm mounting systems of well-known producers are available.

## Industrial mounting system



Stainless  
Steel



RAL 9006

### Mounting system stainless steel or RAL 9006

- all around closed chassis and mounting system according to IP65
- cable run within the mounting system
- 350° swiveling

## Deskstand



### Available for T15-PCOX

- usable for table and wall mounting
- RAL 9006
- arrest articulation
- horizontal swiveling mount

## Keyboard and mouse platform



### Platform

- useable for accepted keyboard and mouse
- RAL 9006

## Mounting systems

### ERGO-100

- flexible mounting fixture with triple pivot point
- incl. kit for direct wall mounting



Order info:  
ERGO-100



Order info:  
ERGO-FX

### ERGO-FX

- to fit on every vertical plane surface with < 20 mm space
- rigid mounting fixture

### Adjustable wall fixture

- vertically adjustable wall mounting for Panel PC and keyboard with mouse
- variable height 228 mm
- low mounting depth < 100 mm for the complete unit



Order info:  
ERGO-VL

### Height adjustable swivel arm for table, ceiling or wall mounting

- vertical mounting of the Panel PC and keyboard
- rotation area up to 180°
- adjustable height for standing and sedentary jobs
- integrated cable run



Order info:  
ERGO-400-LCD



Order info:  
ERGO-400-LCD-KB

### Swivel arm with adjustable visual distance for table or wall mounting

- table clamp (wall fixture alternative) and articulated arm with internal cable run
- distances can be adjusted like a telescope



Order info:  
ERGO-200-Tisch

### Cable Bushing

- The cable bushing from tci can be used to lead the cables to the outside. It is applicable for arms with or without integrated cable run. VESA 75 connection is necessary.
- IP 65 is not affected by the cable bushing

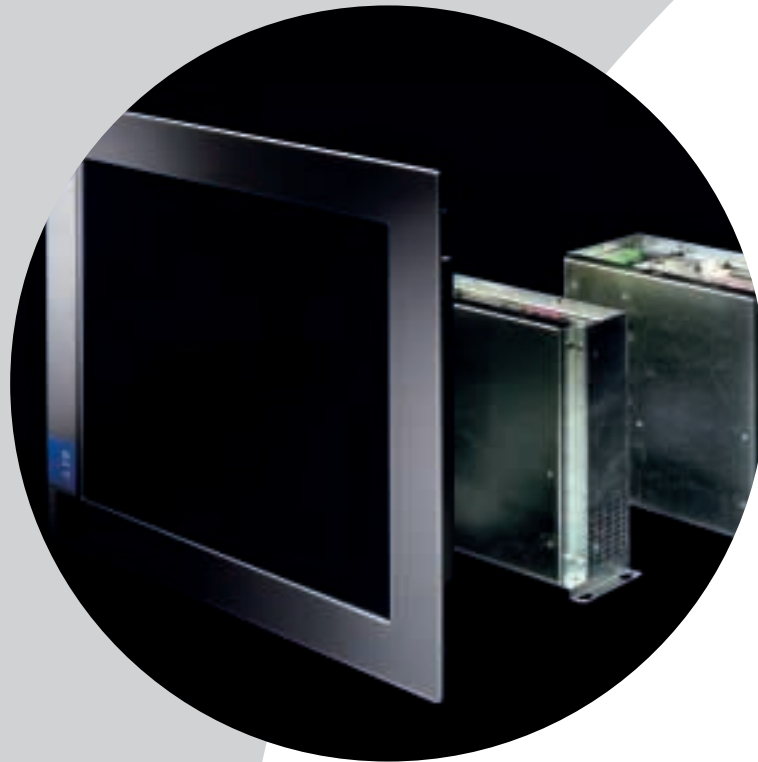


T15-ZB-GEH-KABELDF-VESA-G  
(for arms without integrated cable run)



T15-ZB-GEH-KABELDF-VESA-O  
(for arms with integrated cable run)

# TARGET



## **TARGET-Series** **Compact, cost-effective and reliable**

The TARGET-series includes Panel PC's with displays of 12" to 19". The chassis is available in a flat and compact version without any slots as well as with two free PCI-slots – specific to your requirements. The connection with the TFT is effected via an analog VGA-interface. Without TFT the TARGET can be used as IPC for wall mounting. In order to get a reliable performance, the system is equipped with a passive cooled ITX-board. As alternative we offer a board with Pentium-Technology. The [variable cooling concept](#) is a further advantage of this series. Overpressure venting or redundant overpressure venting is available. For very dusty environments, a fanless version can be applied.



Panel PC

## 12.1"/15" Panel PC **A12-TARGET**

mounting	panel mount optional 19"	panel mount optional 19"
protection	front IP 65	front IP 65
max. resolution	800x600	1024x768
outside accessible drives	1 x CD-ROM (optional)	1 x CD-ROM (optional)
internal drives	1 x HDD	1 x HDD
backplane	ITX-board	ITX-board
keyboard	-	A15-TARGET/KB
touch	optional	optional
description	page 62-63	page 64-65



Panel PC

## **A15-TARGET**



Panel PC

## 17"/19" Panel PC **A17-TARGET**

mounting	panel mount optional 19"	panel mount optional 19"
protection	front IP 65	front IP 65
max. resolution	1280x1024	1280x1024
outside accessible drives	1 x CD-ROM (optional)	1 x CD-ROM (optional)
internal drives	1 x HDD	1 x HDD
backplane	embedded board	embedded board
keyboard	-	A19-TARGET/KB
touch	optional	optional
description	page 66-67	page 68-69



Panel PC

## **A19-TARGET**

# TARGET



## A12-TARGET

The A12-TARGET is a cost-effective and compact panel-PC with 12.1" TFT. It can be equipped with two chassis variants. One of these chassis variants offers with two free slots high flexibility. Furthermore the A12-TARGET can be delivered as a fanless solution und with overpressure venting.

The passively cooled ITX-Board provides for the reliable performance, as alternative solution we can offer boards with Pentium technology. Both boards can be equipped with 1 GB RAM.

The coupling platine for CD-ROM and 2.5" HDD provides for cable-reduced industrial structure and increased reliability. For hardest environmental conditions the panel pc offers an overpressure venting.



EP chassis with two free slots and overpressure venting



Quick-release fasteners between PC-box and VGA. Mounting without any tools.

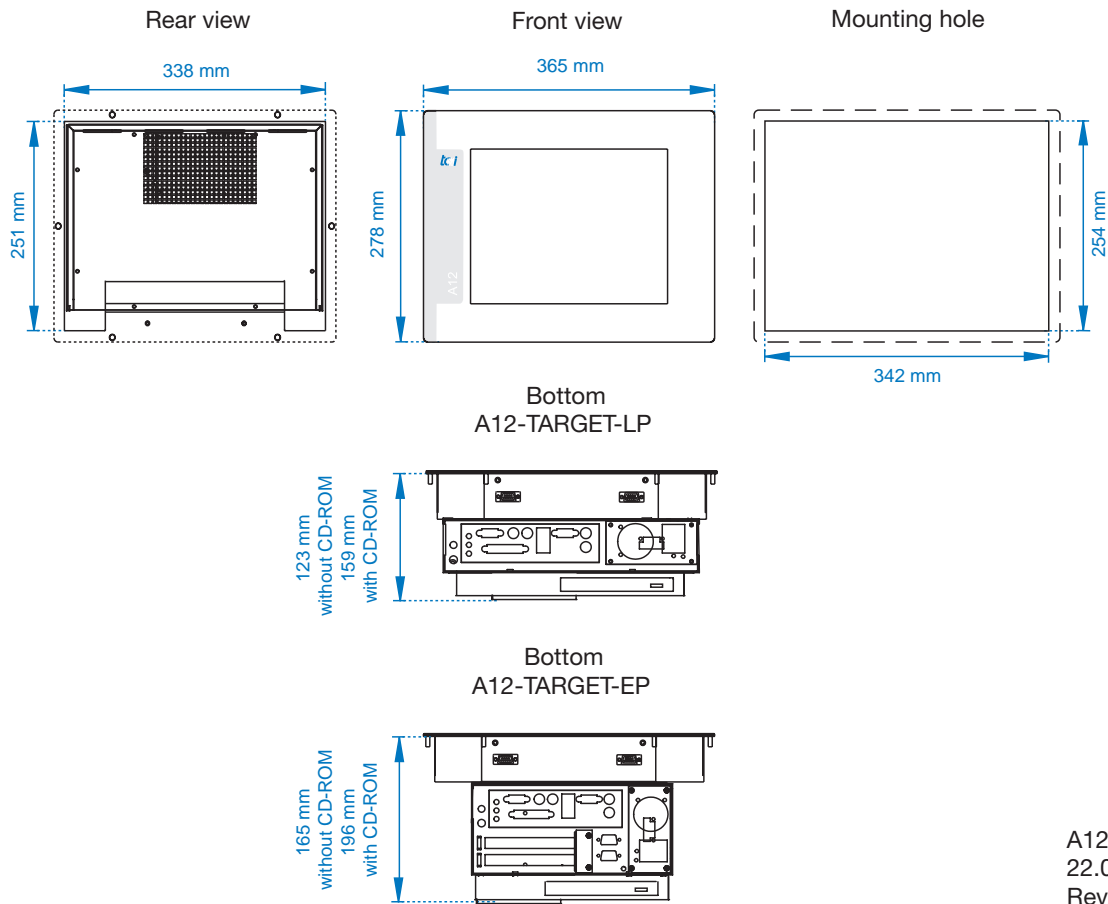
## Technical data

- equipped with 12.1" TFT with thermally pre-stressed and coated protection glass, 300cd/m<sup>2</sup>, 800x600, 256k colours
- optional touch
- modular chassis system of steel with up to two free slots
- milled aluminium front IP65 customized design possible
- optional stainless steel
- variable cooling concept
  - overpressure venting
  - overpressure venting redundant
  - fanless
- LowPower-Equipment: ITX-board, VIA Eden chipset
- HighPerformance-Equipment: ITX-board, Pentium technology
- individual technical equipment on request
- equipped with HDD
- optional slimline CD-ROM
- interfaces: ethernet 10/100Mbps, 2xUSB, RS-232 depending of the board, LPT, PS/2 for mouse and keyboard
- On/Off switch on the connection panel

## Specifications

- working temperature: 0 up to 50 °C (overpressure venting)
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 24 VDC

## Drawing



A12-TARGET  
22.06.2005  
Rev.: 1.1

## Order information A12-TARGET

### Basicsystem:

A12-TARGET 12.1" TFT, chassis with overpressure venting, ITX-board, RAM, HDD, ethernet 10/100Mbps

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Chassis:

Please choose the chassis version:

GEH-TARGET-LP	flat chassis, without slots
GEH-TARGET-EP	extended, 2 free slots

### Drives:

CD-KIT-TARGET	slimline CD-ROM
---------------	-----------------

### Fanless:

GEH-TARGET-FL	available LowPower version
---------------	----------------------------

### Options:

A12-TS	touch
A12-R19	19"-front, 7 U

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, WindowsNT, Windows2000, WindowsXP, Linux, others

# TARGET



## A15-TARGET

The A15-TARGET is as the A12-TARGET a cost-effective and compact panel-PC Of the Target-series. It can be equipped with two chassis variants. One of the chassis versions offers high flexibility with two free slots. Furthermore a fanless solution as well as one with overpressure venting for hard environmental conditions are available. The passively cooled ITX-Board provides for the reliable performance, as alternative we can offer boards with Pentium technology. The coupling platine for CD-ROM and 2.5" HDD provides for cable reduced industrial structure and increased reliability.



EP chassis with two free slots and overpressure venting



Quick-release fasteners between PC-box and VGA Mounting without any tools.

## Technical data

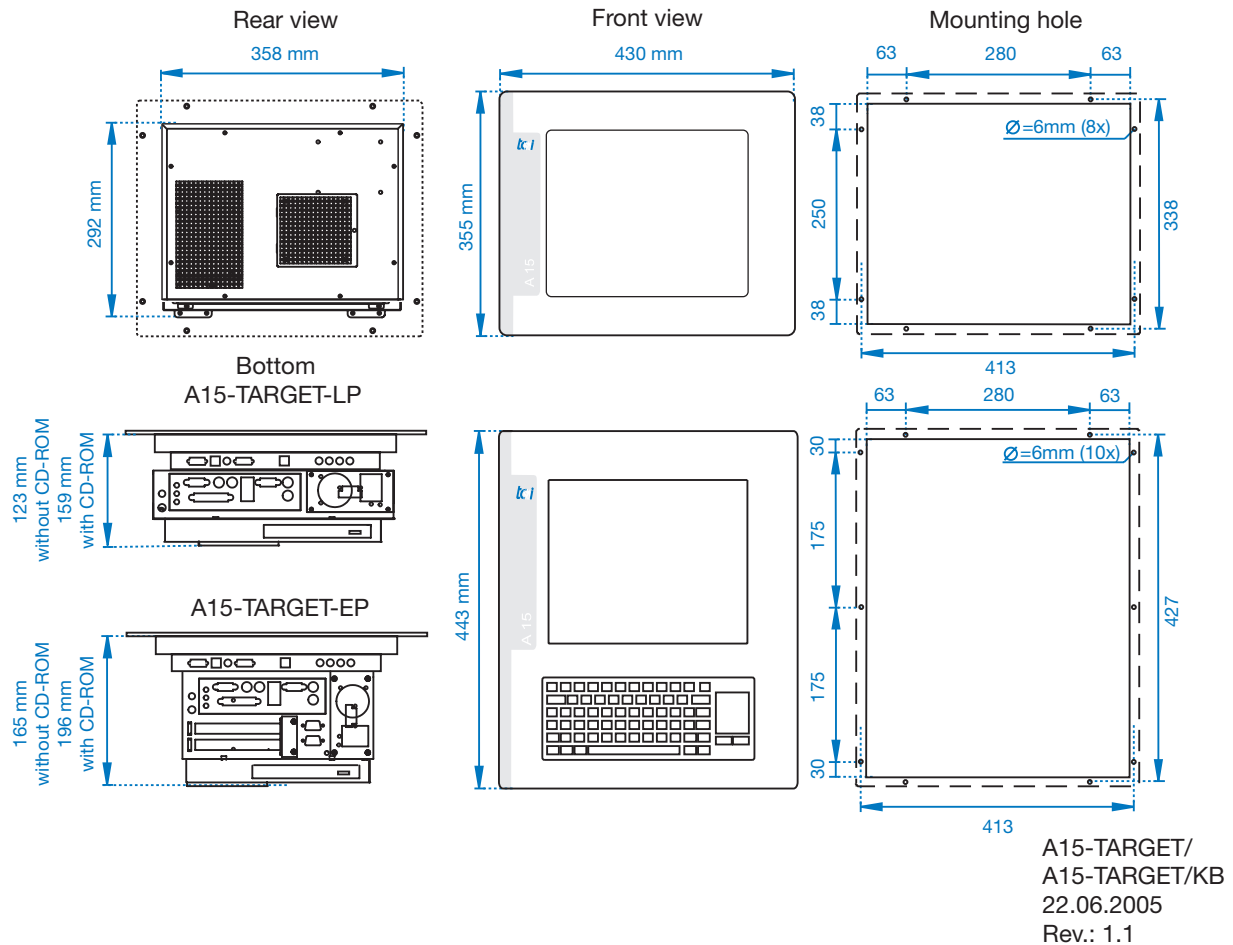
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 250cd/m<sup>2</sup>, 1024x768, 16 Mio. colours
- optional touch
- modular chassis system of steel with up to two free slots
- milled aluminium front IP65 customized design possible
- optional stainless steel
- variable cooling concept
  - overpressure venting
  - overpressure venting redundant
  - fanless
- LowPower-Equipment: ITX-board, VIA Eden chipset
- HighPerformance-Equipment: ITX-board, Pentium technology
- individual technical equipment on request
- equipped with HDD
- optional slimline CD-ROM
- interfaces: ethernet 10/100Mbps, 2xUSB, RS-232 depending of the board, LPT, PS/2 for mouse and keyboard
- On/Off switch on the connection panel

## Specifications

- working temperature: 0 up to 50 °C (overpressure venting)
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 24 VDC



## Drawing



## Order information A15-TARGET

### Basicsystem:

A15-TARGET	15" TFT, chassis with overpressure venting, ITX-board, RAM, HDD, ethernet 10/100 Mbps
A15-TARGET/KB	same as A15-TARGET with keyboard and glidepad

Configuration changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Chassis:

Please choose the chassis version:

GEH-TARGET-LP	flat chassis, without slots
GEH-TARGET-EP	extended, 2 free slots

### Drives:

CD-KIT-TARGET	slimline CD-ROM
---------------	-----------------

### Fanless:

GEH-TARGET-FL	available LowPower version
---------------	----------------------------

### Options:

A15-TS	touch
A15-R19	19"-front, 8 U

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, WindowsNT, Windows2000, WindowsXP, Linux, others

# TARGET

fanless



## A17-TARGET

The A17-TARGET offers by the same dimensions and same resolution a cost-effective alternative solution to the A19-TARGET. The A17-TARGET with 17" TFT can be equipped with two chassis variants. One of these chassis versions offers high flexibility with two free slots. Furthermore a fanless solution as well as one with overpressure venting is available. The passively cooled ITX-Board provides for the reliable performance, as alternative we can offer boards with Pentium technology.

The coupling platine for CD-ROM and 2.5" HDD provides for cable reduced industrial structure and increased reliability. For hardest environmental conditions the panel pc can be equipped with overpressure venting.



EP chassis with two free slots and overpressure venting



Quick-release fasteners between PC-box and VGA Mounting without any tools.

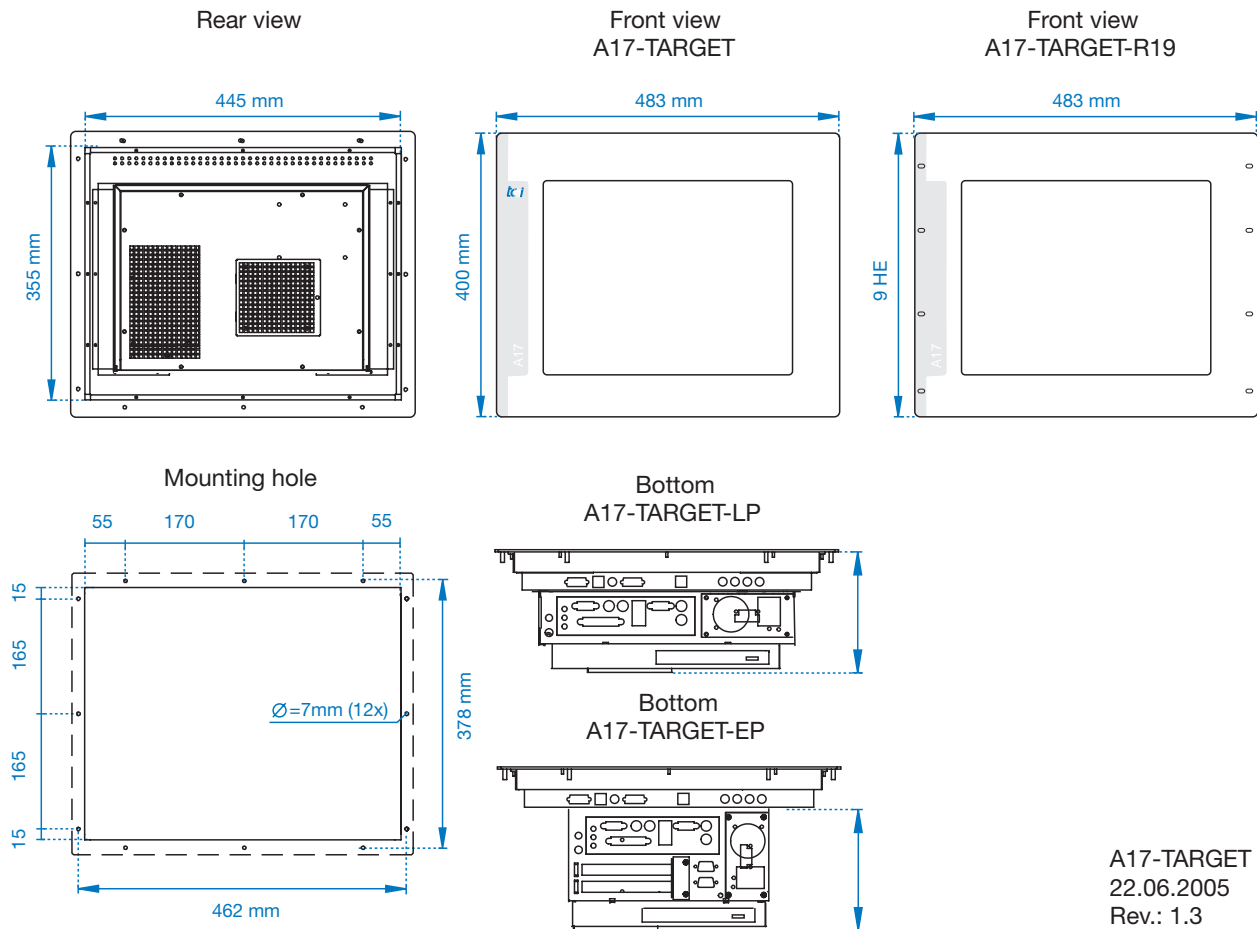
## Technical data

- equipped with 17" TFT with thermally pre-stressed and coated protection glass, 250cd/m<sup>2</sup>, 1280x1024, 16 Mio. colours
- optional touch
- modular chassis system of steel with up to two free slots
- milled aluminium front IP65 customized design possible
- optional stainless steel
- variable cooling concept
  - overpressure venting
  - overpressure venting redundant
  - fanless
- LowPower-Equipment: ITX-board, VIA Eden chipset
- HighPerformance-Equipment: ITX-board, Pentium technology
- individual technical equipment on request
- equipped with HDD
- optional slimline CD-ROM
- interfaces:
  - ethernet 10/100 Mbps, 2xUSB,
  - RS-232 depending of the board,
  - LPT, PS/2 for mouse and keyboard
- On/Off switch on the connection panel

## Specifications

- working temperature: 0 up to 50 °C (overpressure venting)
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 24 VDC

## Drawing



A17-TARGET  
22.06.2005  
Rev.: 1.3

## Order information A17-TARGET

### Basicsystem:

A17-TARGET	17" TFT, chassis with overpressure venting, TX-board, RAM, HDD, ethernet 10/100Mbps
A17-TARGET-R19	same as A17-TARGET with 19"-front 9 U

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Chassis:

Please choose the chassis version:

GEH-TARGET-LP	flat chassis, without slots
GEH-TARGET-EP	extended, 2 free slots

### Drives:

CD-KIT-TARGET	slimline CD-ROM
---------------	-----------------

### Fanless:

GEH-TARGET-FL	available LowPower version
---------------	----------------------------

### Options:

A17-TS	touch
--------	-------

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, WindowsNT, Windows2000, WindowsXP, Linux, others

# TARGET



## A19-TARGET

The A19-TARGET offers by same resolution (1280x1024) a greater surface than the A17-TARGET. It can be equipped with two chassis variants. One of these chassis versions offers with two free slots high flexibility. Furthermore a fanless solution as well as one with overpressure venting for hard environmental conditions is available.

The passively cooled ITX-Board provides for reliable performance. As alternative we can offer boards with Pentium technology.

The coupling platine for CD-ROM and 2.5" HDD provides for cable reduced industrial structure and increased reliability.



EP chassis with two free slots and overpressure venting



Quick-release fasteners between PC-box and VGA Mounting without any tools.

## Technical data

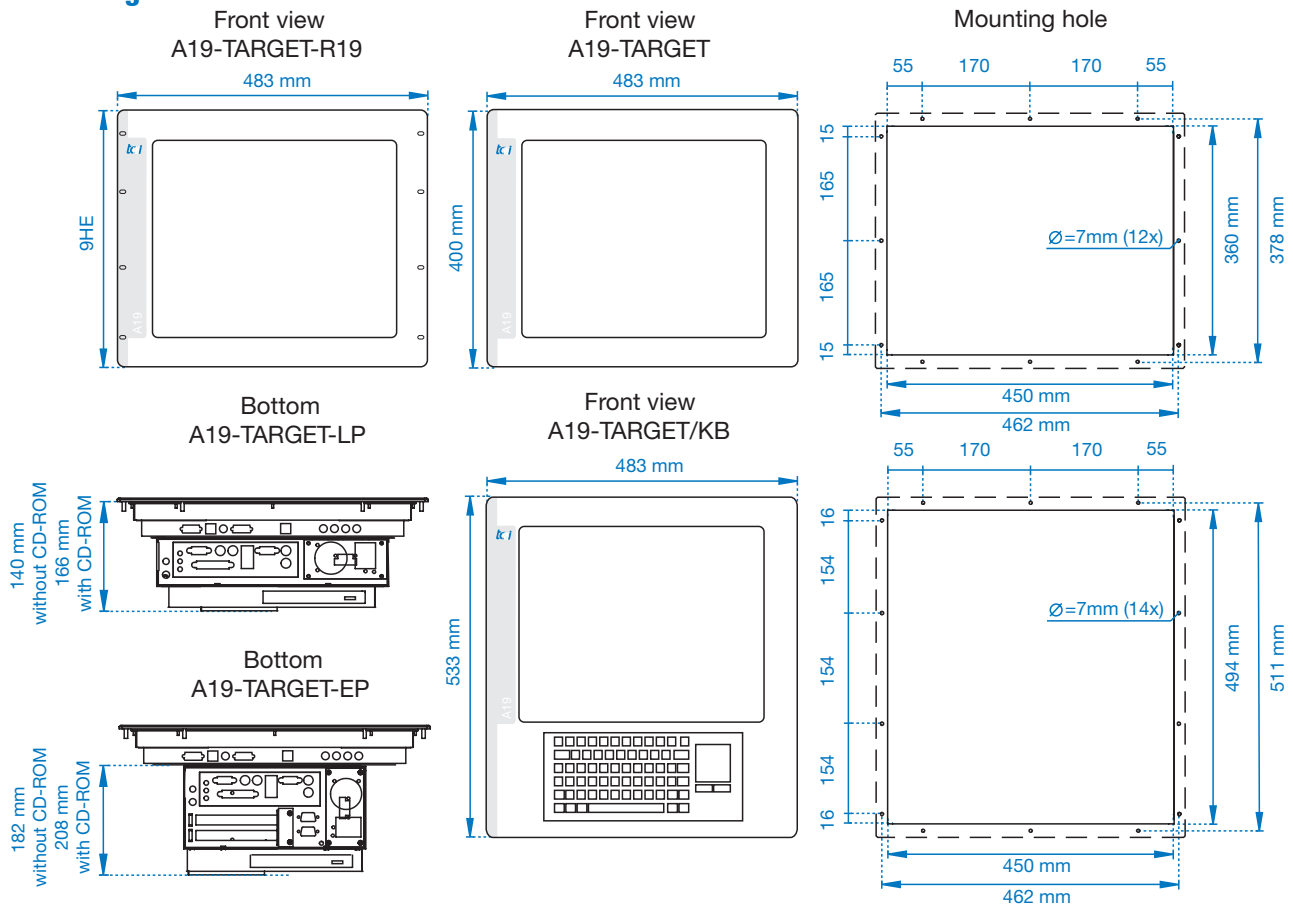
- equipped with 19" TFT with thermally pre-stressed and coated protection glass, 250cd/m<sup>2</sup>, 1280x1024, 16Mio. colours
- optional touch
- modular chassis system of steel with up to two free slots
- milled aluminium front IP65 customized design possible
- optional stainless steel
- variable cooling concept
  - overpressure venting
  - overpressure venting redundant
  - fanless
- LowPower-Equipment: ITX-board, VIA Eden chipset
- HighPerformance-Equipment: ITX-board, Pentium technology
- individual technical equipment on request
- equipped with HDD
- optional slimline CD-ROM
- interfaces: ethernet 10/100Mbps, 2xUSB, RS-232 depending of the board, LPT, PS/2 for mouse and keyboard
- On/Off switch on the connection panel

## Specifications

- working temperature: 0 up to 50 °C (overpressure venting)
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 24 VDC

# A19-TARGET

## Drawing



A19-TARGET/  
A19-TARGET-PMT  
A19-TARGET-PMT/KB  
22.06.2005; Rev.: 1.2

## Order information A19-TARGET

### Basicsystem:

A19-TARGET	19" TFT, chassis with overpressure venting, ITX-board, RAM, HDD, ethernet 10/100Mbps,
A19-TARGET/KB	same as A19-TARGET, with keyboard and glidepad
A19-TARGET-R19	same as A19-TARGET with 19"-front 9 U

### Fanless:

GEH-TARGET-FL	available LowPower version
---------------	----------------------------

### Options:

A19-TS	touch
--------	-------

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Chassis:

Please choose the chassis version:

GEH-TARGET-LP	flat chassis, without slots
GEH-TARGET-EP	extended, 2 free slots

### Customized:

For other configurations please ask our system consultants.

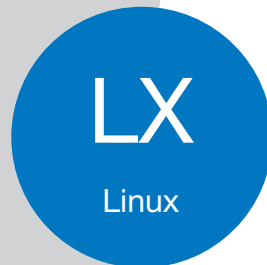
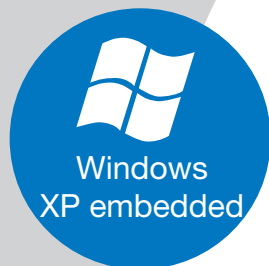
### Drives:

CD-KIT-TARGET	slimline CD-ROM
---------------	-----------------

### Operating system:

DOS, WindowsNT, Windows2000, WindowsXP, Linux, others

# Embedded software



## Fanless Embedded PC's – higher reliability

Panel PC's with embedded software from tci stand up to classic industrial computers just when those do no longer meet the requirements. Hard disks and fans are replaced consequently by FlashDisk and heat sinks. As there are no mechanical wearing parts, they are particularly robust, calm and reliable and therefore best suitable for extreme demands as well.

## All-inclusive – System Integrated Applications

Due to the low storage requirement, the operating systems have enough space on the FlashDisk. The embedded software (Windows CE.net, Windows XP Embedded or Linux) allows fast boots or reboots in case of a production stop and is considerably more resistant to voltage breakdowns than classic operating systems. In addition, every required application can be seamlessly integrated into the system, so that possible sources of error can be avoided as far as possible.



**NEW**

Embedded Panel PC  
**A06-EOS**



**NEW**

Embedded Panel PC  
**A15-EMB-EOS**



**NEW**

Embedded Panel PC  
**T15-EOS**

mounting	panel mounting	panel mounting optional 19"	bracket
protection	front IP 65	front IP 65	all around IP 65
max. resolution	640 x 480	1024 x 768	1024 x 768
outside accessible drives	-	1x FDD (optional) 1x CD-ROM (optional)	-
internal drives	-	1 x HDD	-
backplane	embedded board	embedded board	embedded board
keyboard	-	A15-EOS/KB	T15-EOS/KB
machine terminal	-	-	T15-EOS/MT
touch	optional	optional	optional
description	page 20-21	page 28-29	page 48-49

# Embedded software



## Windows CE.net

The operating system Windows CE.net is used for all EOS-systems from tci as basic operating system. Its advantages are the low space requirements for installation (from 8 MB mass storage) and the virus resistance.

## ⑤ Specifications

### Software development features

- Microsoft Foundation Classes for Windows CE
- ATL (Active Template Library) for Windows CE
- COM (Component Object Model)
- ActiveSync for data exchange and easy software development

### Communication protocols

- modem
- network protocol (TCP/IP)
- Windows Networking API/Redirector (SMB/CIFS) offers the access to quantity folders in a Windows network

### Image features

- Standard SDK for Windows CE.NET offers faster entrance into the software development of Windows CE
- UDB HID (Human Input Device) offers the connection of USB keyboard and mouse to CE devices
- USB Storage Support offers the connection of USB storage medium

### Windows CE server features

- SQL Server CE2.0
- Web Server
- FTP Server

### Customized image

#### Software development features

- .NET Compact Framework 1.0
- VPN support

## ⑥ Order information Windows CE.net

### Software:

EOS-CE-BASIS	Software image with Windows CE 4.n
EOS-CE-WEB	Software image with Windows CE 4.n and WEB-Terminal function
EOS-CE-TCL	Software image with Windows CE 4.n and ThinClient function
EOS-CE-PLC	Software image with Windows CE 4.n and PLC-operating terminal function

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

EOS-CUSTOM	Customisation of the software image
------------	-------------------------------------

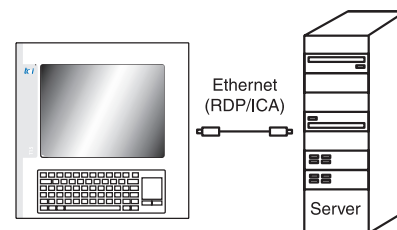


## Thin Client (EOS-CE-TCL)

With Thin Client applications, all computer operations are executed on a central server. Only the in- and output is transmitted by an optimised protocol to the Thin Client via ethernet. If an emergency stop is necessary, there will be no data loss. Central administration will lead to cost advantage and to an increased robustness of the whole system if diffused applications are used. That avoids an access on location and merely the operation on the central tasks is enabled.

### Software data

- operating system: Windows CE 4.n NET
- applications software: Thin Client
- server operating system: Windows 2000 Server, Windows NT 4.0 Terminal Server, Citrix WinFrame, Citrix MetaFrame, UNIX (only ICA)
- protocols: RDP 5.1 and ICA 6.30

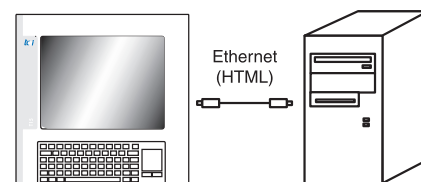


## WEB-Terminal (EOS-CE-WEB)

Being equipped with Windows CE 4.n NET and Browser, EOS-systems can be used as WEB-operation terminal. Unlike the Thin Client, this WEB-Terminal is connectable with every computer in the web but without the need for server operating systems. It is able to visualise HTML-pages and can be used in the LAN as well as in the global web.

### Software data

- operating system: Windows CE 4.n NET
- applications software: Microsoft Internet Explorer

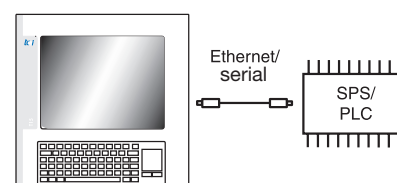


## SPS-Operating-Terminal (EOS-CE-PLC)

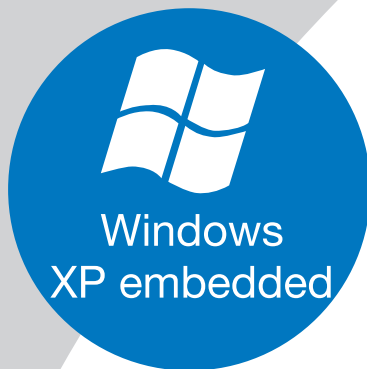
Being equipped with Windows CE 4.n NET and zenOn CE the EOS-Systems from tci turn into SPS-Operating-Terminals. The connection to the SPS (e.g. Siemens S5 and S7, Modbus RTU, OMRON, Moeller et al.) is effected via ethernet or serial port and without additional software.

### Software data

- operating system: Windows CE 4.n NET
- applications software: Visualisation software  
zenOn CE Runtime



# Embedded software



## Windows XP Embedded

As further operating system for the EOS-systems, Windows XP Embedded is considered. Due to the adjustment to your application, the storage need is kept to a minimum and the performance can be optimised in regard to your requirements.

### § Specifications

#### Image features

- graphic display
- audio
- touch connection
- ODBC
- .NET Framework
- Internet Information Server (IIS)
- Control Panel
- administrative tools
- network printing
- USB storage mediums
- browser (Internet-Explorer)

#### Communication protocols

- modem support
- Thin Client connection with Remote Desktop (RDP)
- network protocol (TCP/IP)
- file release

#### Customized image

- Size and performance of operating system will be optimized for customized applications.
- Please ask our consultants for further requirements.

### ① Order information Windows XP Embedded

#### Software:

EOS-XP-BASIS	Software image with Windows XP embedded
--------------	---

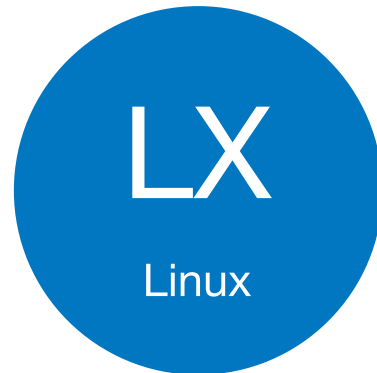
Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

#### Options:

EOS-CUSTOM	Costumisation of the software image
------------	-------------------------------------

## Linux

As an alternative to the Windows-based operating systems, Linux can be used with all EOS-systems. Being an open source product, it does not cause any license costs. The operating system can be configured and compiled in order to meet your requirements.



## Ⓢ Specifications

### Image features

- graphic display
- audio
- touch connection
- browser (Firefox)

### Communication protocols

- Thin Client connection with Remote Desktop (RDP) oder Citrix (ICA)
- network protocol (TCP/IP)

### Terminal emulation

- VNC
- XDM
- VT102
- VT220
- Telnet
- IBM5250
- VMS term
- SSH

### Customized image

- Size and performance of operating system will be optimized for customized applications.  
Please ask our consultants for further requirements.

## Ⓢ Order information Linux

### Software:

EOS-LX-BASIS	Software image with Linux
--------------	---------------------------

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

EOS-CUSTOM	Customisation of the software image
------------	-------------------------------------

## LCD monitors with TFT



### **Tough and high brightness**

Not only are the colours brilliant in our industrial panel displays, but above all the tough construction and finish are of the highest quality. Due to a wide reading angle, information can easily be retrieved.

## Terminal T-15

## T15-VGA

LCD-diagonal	15"
max. resolution	1024 x 768
mounting	bracket
protection	all around IP 65
interfaces	VGA and DVI, optional video
keyboard	T15-VGA/KB T15-VGA/MT
touch	optional
discription	page 56-57

## Panel Display

## A12-VGA-II

## A15-VGA-II

## A17-VGA

## A19-VGA

LCD-diagonal	12.1"	15"	17"	19"
max. resolution	800x600	1024x768	1280x1024	1280x1024
mounting	panel, Vesa75 optional 19"	panel, Vesa75 optional 19"	19" mounting Vesa 100	19" mounting Vesa 100
protection	front IP 65	front IP 65	front IP 65	front IP 65
interfaces	VGA and DVI, optional video	VGA and DVI, optional video	VGA and DVI, optional video	VGA and DVI, optional video
keyboard	-	A15-VGA-II/KB	-	A19-VGA/KB
touch	optional	optional	optional	optional
discription	page 78-79	page 80-81	page 82-83	page 84-85

## Panel Display

## LCD-TERM

LCD-diagonal	15"
max. resolution	1024 x 768
mounting	19"
protection	-
interfaces	VGA
keyboard	optional
touch	-
discription	page 86-87

# Panel Display



## A12-VGA-II

This new LC-display complements our A-series and is equipped with a 12.1" TFT with 250 cd/m<sup>2</sup>, a wide reading angle and high luminous intensity. Due to its small size the display forms an ideal solution for space-limited areas.

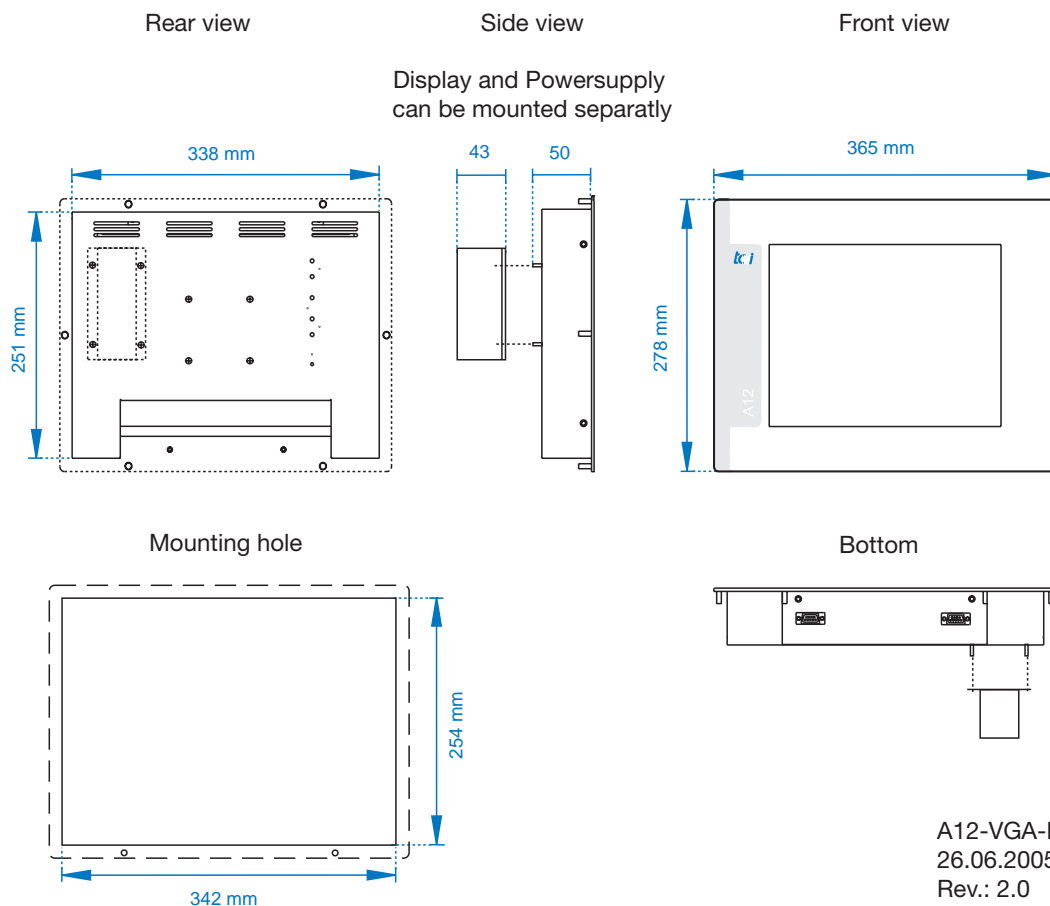
### **T** Technical data

- industrial TFT with VGA-input and DVI-input
- equipped with 12.1" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 800x600, 256 K colours
- optional touch
- mounting: installation on patch board or VESA 75, 19" installation optional
- steel chassis
- milled aluminium front IP65, customized design possible
- optional stainless steel
- display setting with OSD (On-Screen-Display)
- interfaces: VGA and DVI, optional video
- On/Off-switch on rear side

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- external power supply 110/230 VAC 50/60 Hz
- weight: 6 kg

## ① Drawing



A12-VGA-II  
26.06.2005  
Rev.: 2.0

## ① Order information A12-VGA-II

### Chassis + equipment:

A12-VGA-II	Panel Display 12.1"
------------	---------------------

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A12-TS	touch
A12-R19	19"- front, 7 U

# Panel Display



## A15-VGA-II

Our A15-VGA-II is equipped with a 15" TFT that provides a wide reading angle and high luminous intensity. It can be upgraded with a touch screen as a user interface, but all operating controls are integrated into the back of the system to avoid unauthorised modifications of the set-up.

### T Technical data

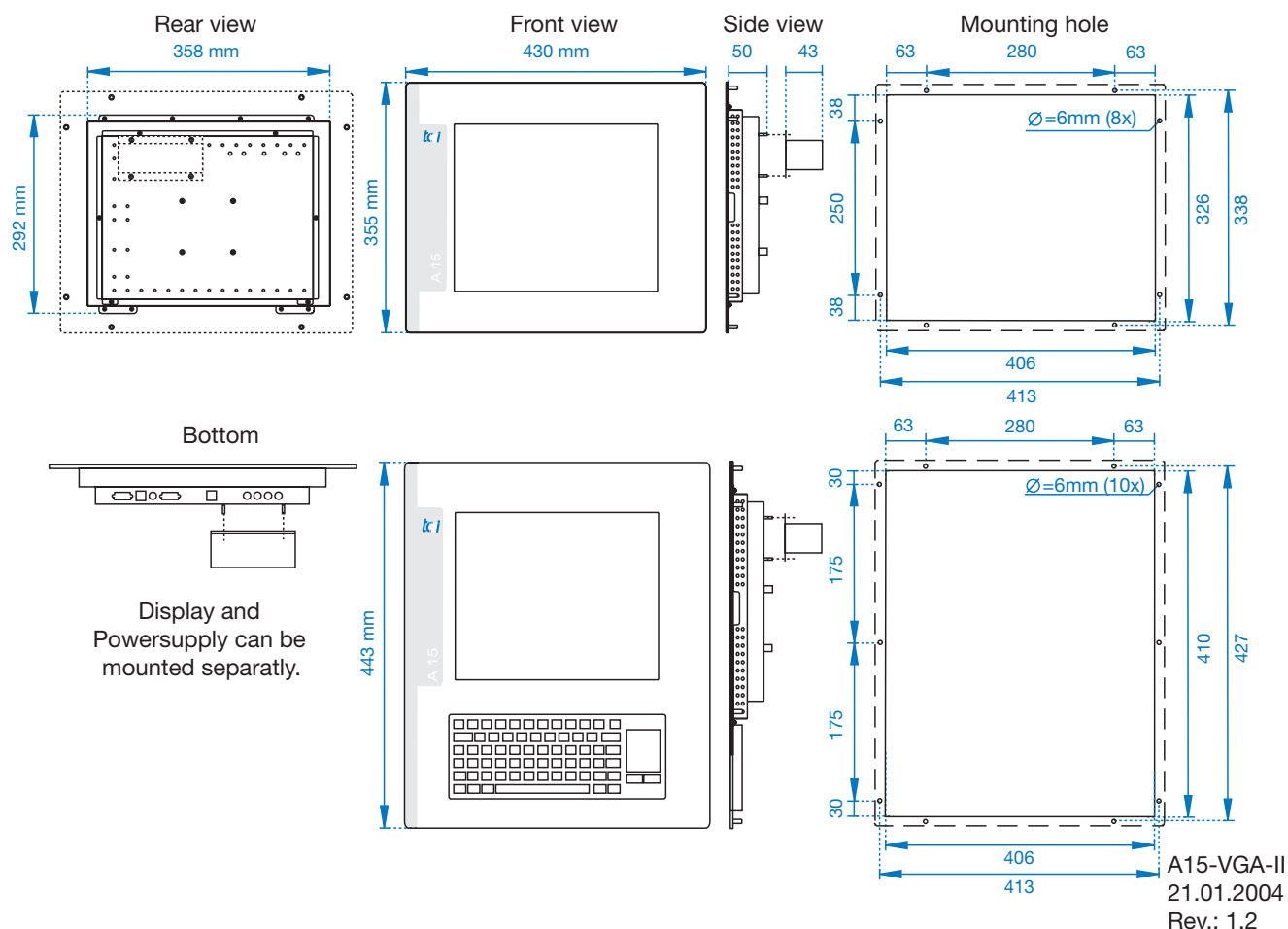
- industrial TFT with VGA-input and DVI-input
- equipped with 15" TFT with thermally pre-stressed and coated protection glass, 250 cd/m<sup>2</sup>, 1024 x 768, 16 mio. colours
- optional touch
- mounting: panel mounting or Vesa 75 bracket, 19" installation optional
- steel chassis
- milled aluminium front IP65  
customized design possible
- optional stainless steel
- display settings with OSD (On-Screen-Display)
- interfaces: VGA and DVI, optional video
- On/Off-switch on rear side

### S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- external power supply  
110/230 VAC, 50/60 Hz
- weight: 7.6kg



## Drawing



## Order information A15-VGA-II

### Chassis + equipment:

A15-VGA-II	Panel Display 15"
A15-VGA-II/KB	same as A15-VGA-II, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A15-TS	touch
A15-R19	19"- front, 8U

# Panel Display

NEW

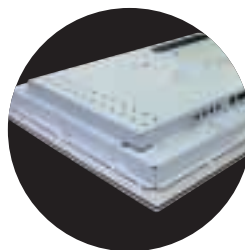


## A17-VGA

The new A17-VGA is equipped with a 17" TFT and has the same dimensions and same resolution (1280x1024) as the A19-VGA. In consequence of the 17" TFT it has a smaller diagonal and a favorable price. Due to the mounting compatibility the A17-VGA is the low-priced option to the A19-VGA.



Highest surface quality by milled aluminium front



A17-VGA rearside, powersupply can be mounted separately. The mounting thickness is down to 57 mm



The digital user interface offers you a simple monitor adjustment via OSD (On-Screen-Display).

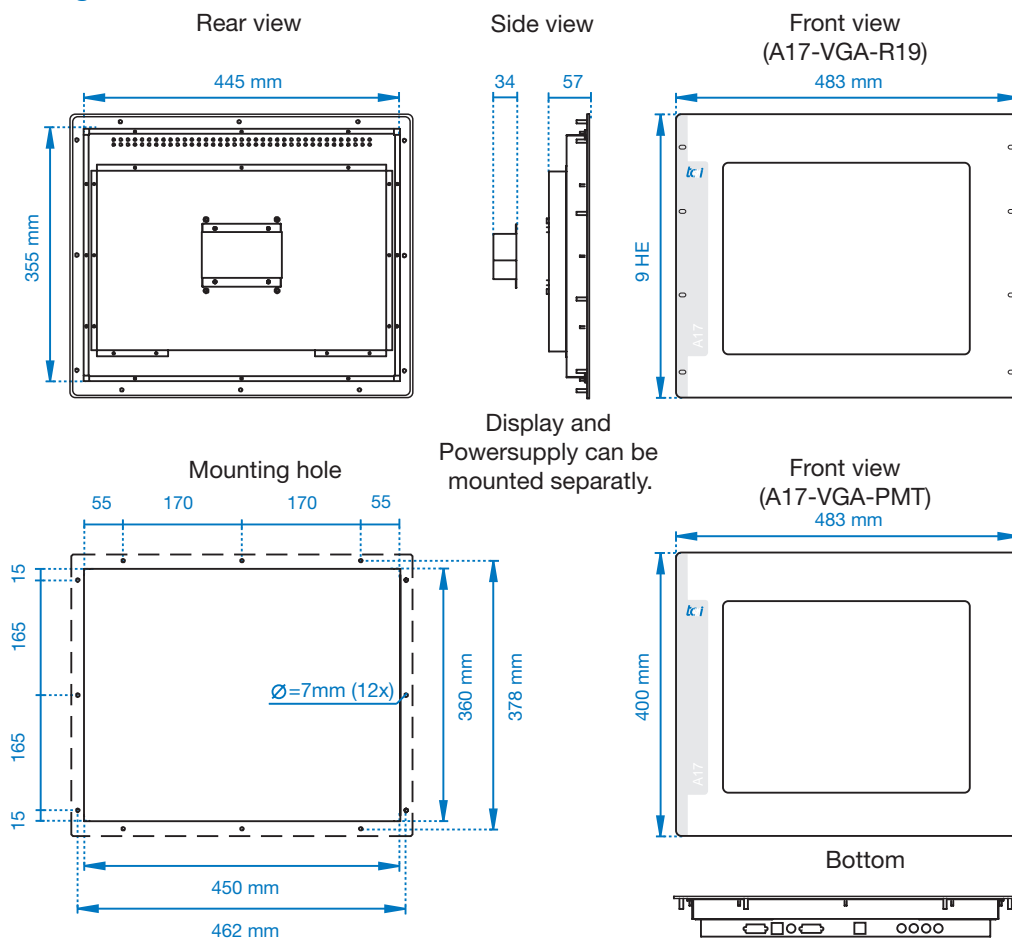
## T Technical data

- Industrial TFT with VGA- and DVI-input
- equipped with 17" TFT with thermally pre-stressed and coated protection glass, 250cd/m<sup>2</sup>, 1024x768, max. 16 Mio. colours
- optional touch
- mounting: panel mounting, industrial mounting arm by VESA 75/100 or 19" mounting (on request)
- optional touch
- milled aluminium front IP 65, customized design possible
- display setting with OSD (On-Screen-Display)
- interfaces: VGA and DVI  
Video on request

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- external power supply  
110/230 VAC
- weight: 8 kg

## Drawing



A17-VGA-R19/  
A17-VGA-PMT  
06.06.2005  
Rev.: 1.4

## Order information A17-VGA

### 19" mounting:

A17-VGA-R19	Panel Display 17", 9 U
-------------	------------------------

### Panel mounting:

A17-VGA-PMT	Panel Display 17"
-------------	-------------------

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A17-TS	touch
--------	-------

# Panel Display

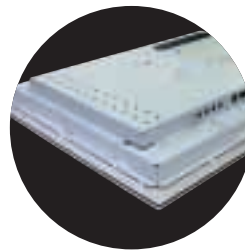
**NEW**



Highest surface quality by milled aluminium front

## A19-VGA

The new A19-VGA is the successor of the A18-VGA. It is equipped with a 19" TFT and offers a greater surface by the same resolution (1280x1024). Therefore it offers the user more readability and easier touchusing.



A17-VGA rearsite, powersupply can be mounted separatly. The mounting thickness is down to 57 mm



The digital user interface offers you a simple monitor adjustment via OSD (On-Screen-Display).

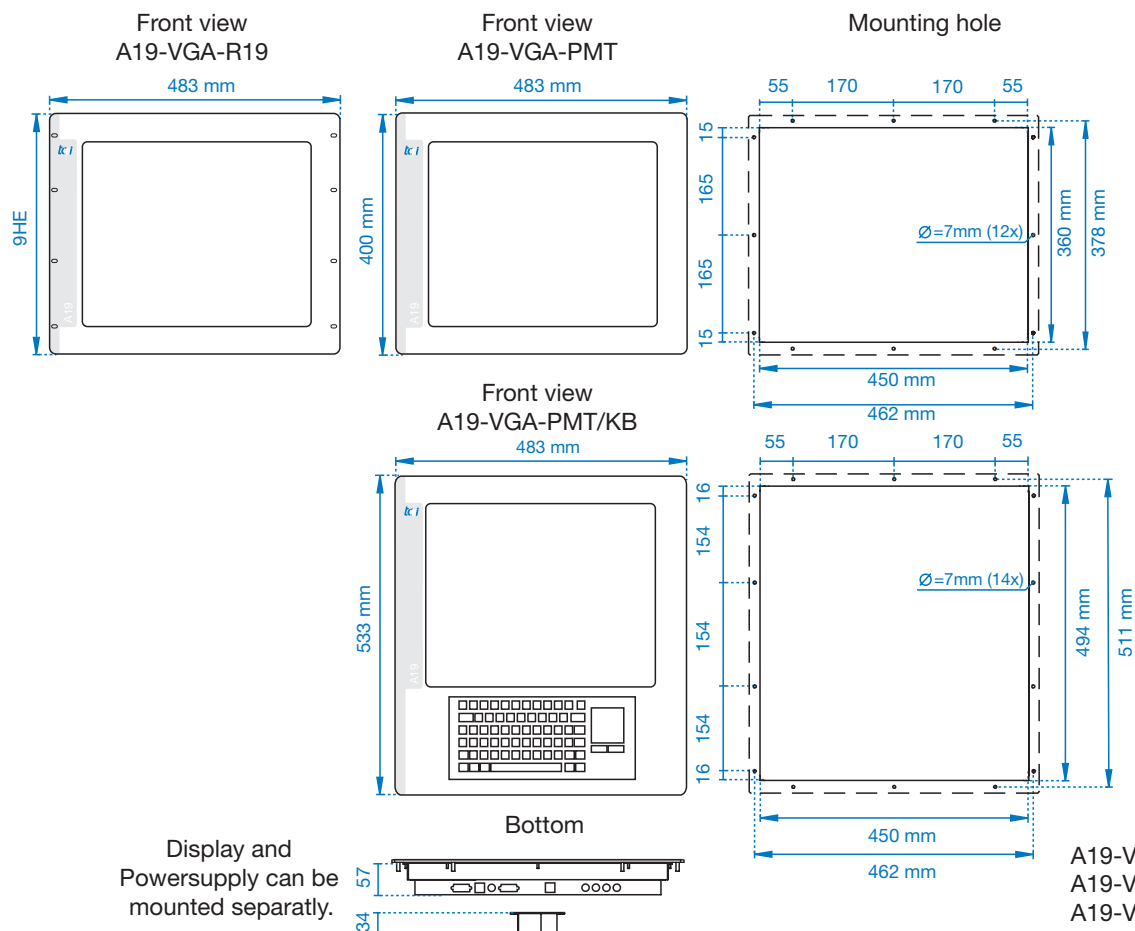
## T Technical data

- Industrial TFT with VGA- and DVI-input
- equipped with 19" TFT with thermally pre-stressed and coated protection glass, 250cd/m<sup>2</sup>, 1280x1024, 16 Mio. colours
- mounting: panel mounting, industrial mounting arm by VESA 75/100 or 19" mounting (on request)
- optional touch
- milled aluminium front IP 65, customized design possible
- display setting with OSD (On-Screen-Display)
- interfaces: VGA and DVI, Video on request

## S Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- external power supply 110/230 VAC
- weight: 8 kg

## ① Drawing



A19-VGA-PMT  
A19-VGA/KB  
A19-VGA-R19  
10.05.2005  
Rev.: 1.6

## ① Order information A19-VGA

### 19" mounting:

A19-VGA-R19	Panel Display 19", 9 U
-------------	------------------------

### Panel mounting:

A19-VGA-PMT	Panel Display 19"
A19-VGA-PMT/KB	same as A19-VGA-PMT, with keyboard and glidepad

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

A19-TS	touch
--------	-------

# Panel Display



## LCD-TERM

In only 1 U this terminal offers display, keyboard (US-layout), mouse-system, stereo loud-speaker and upon request an integrated 8 channel CPU switch. The TFT is available in 15.1". Keyboard, mouse and display are extensible as in a 19" keyboard drawer. The system offers a folding display, so data is easy to read.

### T Technical data

- analog 15.1" TFT Display with OSD (On-Screen-Display)
- high luminous intensity 200 cd/m<sup>2</sup>, 1024 x 768, 16 Mio. colours
- long lifetime (50.000 h)
- keyboard:  
LCD-TERM15/-8U: German-layout
- mouse-system (touchpad)
- optional change-over switch for keyboard, mouse, VGA, audio (LCD-TERM-U)
- single input version for connection with 1 PC, cables inclusive (LCD-TERM)

### S Specifications

- working temperature: 0 up to 50 °C
- Chassis colour white (standard) or black (optional)
- 12 V power supply for operation on 230 VAC optional on 48 VDC
- Size:  
LCD-TERM15/-U8-DE: 1 U, 525 mm depth



LCD-TERM 15-U8-DE  
LCD-Modul



LCD-TERM 15-U8-DE  
rear view

## Order informationen LCD-Term

### without CPU switch:

LCD-TERM15	15.1" Terminal, without CPU switch (incl. 1 x cable)
------------	---

### with CPU switch:

LCD-TERM15-U8-DE	15.1" Terminal, with 8-channel CPU switch, German keyboard (others upon request)
------------------	--

## 19" IPC



### Proven technology in 19" rack

Sometimes it doesn't have to be expensive to be of good taste! Decide on an original tci 19" industrial PC for the very best of reasons.

### Constructive features

- overpressure venting
- card clamps
- EMC
- splash proofed
- knurled screws
- design



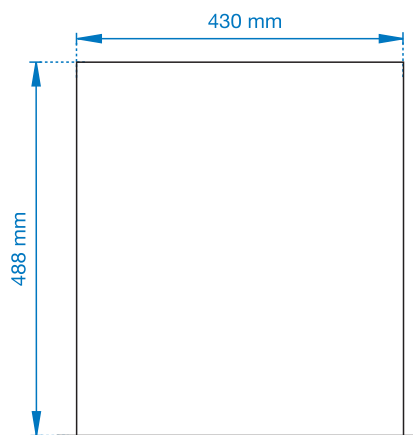
	1 U <b>WEB-1/PCI</b>	2 U <b>WEB-2/PCI</b>
mounting	19" mounting desktop	19" mounting desktop
drives accessible from outside	1x3.5" 1x5.25"	1x3.5" 1x5.25"
motherboard	-	-
backplane	2-slot	6-slot
free slots	1 x ISA/PCI	5 x ISA/PCI
measurement	1 U, 488 mm	2 U, 473 mm
discription	page 90	page 91

	4 U <b>IPC-B</b>	4 U <b>IPC-ECO</b>	5 U <b>IPC-S</b>
mounting	19" mounting desktop	19" mounting desktop	19" mounting
drives accessible from outside	1x3.5" 1x5.25"	1x3.5" 1x5.25"	1x3.5" 4x5.25
motherboard	BAT/ATX	BAT/ATX	BAT/ATX
backplane	14-slot	14-slot	14-slot
free slots	upto 13xISA/PCI	upto 13xISA/PCI	upto 13xISA/PCI
measurement	4 U, 430 mm optional 370 mm	4 U, 450 mm	5 U, 480 mm
discription	page 92-95	page 96-97	page 98-99

	7 U <b>IPC-3035</b>
mounting	19" mounting desktop
drives accessible from outside	2x3.5" 4x5.25"
motherboard	-
backplane	20-slot
free slots	upto 19xISA/PCI
measurement	7 U, 503 mm
discription	page 100-103

# WEB-1/PCI

## D Drawing



WEB-1  
06.03.2003  
Rev.: 1.0

## Technical data

- 19" chassis, 1 U, 488 mm depth
- slot-CPU: please see page 114
- 1 free slot ISA/PCI shared
- drives
  - external: 1 x 3.5" and 1 x 5.25"
  - internal: 1 x 2.5" and 1 x 3.5"
  - (shared with free slot)
- 4 ball-bearing fans
- On/Off switch on case side

## Specifications

- temperature range: 0 up to 50 °C
- power supply 90 watt (85-264 VAC),  
optional DC 12V, 24V or 48V

## Order information WEB-1/PCI

### Chassis + equipment:

WEB-1/PCI	CPU-card, VGA onboard, ethernet, 1 free slot ISA/PCI shared, Intel CPU, RAM, HDD, FDD, CD-ROM
-----------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA (instead of CD-ROM)
WDT-ISA	watchdog card <ul style="list-style-type: none"><li>• temperature-, voltage- and software monitoring</li><li>• RS-232 and terminal board</li></ul>

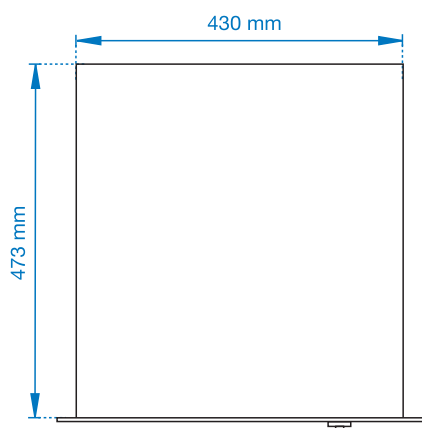
### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux, others

## D Drawing



WEB-2/PCI  
07.02.2003  
Rev.: 1.0



## Technical data

- 19" chassis, 2 U, 473 mm depth
- drives
  - external: 1x 3.5" and 1x 5.25"
  - internal: 1x 3.5"
- changeable filter mat on the front side
- slot-CPU: please see page 114
- On/Off switch on case side

## Specifications

- temperature range: 0 up to 50 °C
- power supply 200 watt (85-265 VAC), optional AC/DC power supply (12 V, 24 V or 48 V)
- colour: black-blue

## Order information WEB-2/PCI

### Chassis + equipment:

WEB-2/PCI	CPU-card, VGA onboard, ethernet, 4 free slots 2x ISA, 2x PCI Intel CPU, RAM, HDD, FDD, CD-ROM
-----------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA (instead of CD-ROM)
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# 19" IPC

## One of the remarkable features of the IPC-B is its chassis:

- Drives are located behind a splash-proof door. Upon request, the front can be delivered in IP54.
- The robust and easy to mount anti-vibration card clamps are height-adjustable without pressing the card.
- The drives are located on shockmounts and they are mechanically decoupled from the case. A HF-seal ensures the flat contact (EMI, CE).
- Extensive measures were taken for EMI-safety, e.g. beryllium springs and HF-seal. Therefore, the IPC-B is suitable for measuring technology and electromagnetically contaminated environments.
- The case is free of dust due to an overpressure venting system. The external filter mat can be changed from the outside without any special tool. Also the complete fan can be changed from outside.
- Customized designs and dimensions possible.
- Made in Germany



Drives are located behind a splash-proof door



card clamps



shockmounts

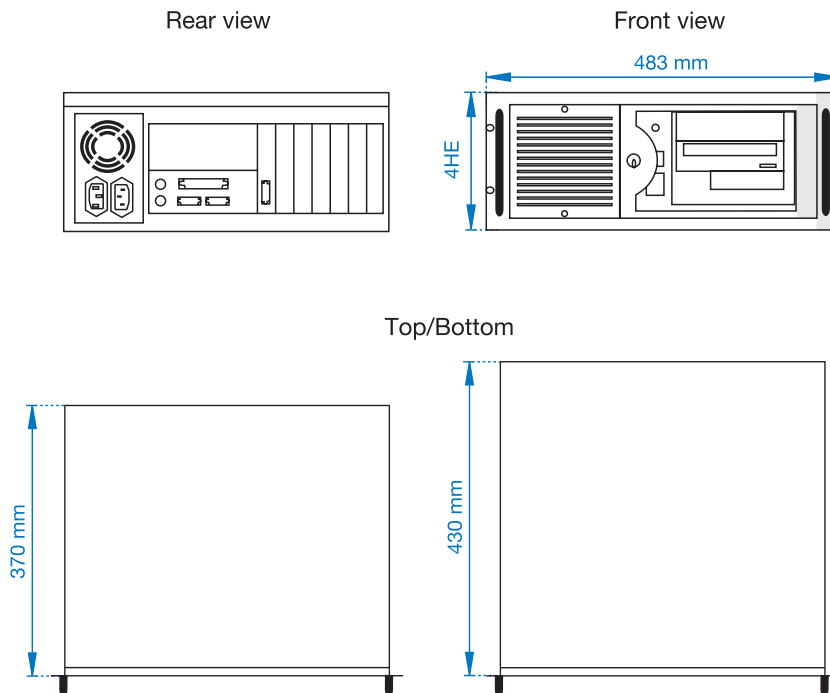


beryllium springs



filtermat

## Drawing



IPC-B  
06.03.2003  
Rev.: 1.0

## Technical data

- size: 4 U, 370 or 430 mm depth
- weight: 14 kg
- easy mounting from motherboard or passive backplane
- mounting option for 2x5.25" and 2x3.5" (optional 3x3.5") drives
- drives on shockmounts
- lockable, splash-proof front door with built in acrylic-plastic pane (smoked glass)
- overpressure in the chassis ensured by a powerful Pabst-fan. The fan absorbs fresh air from the front. Therefore, the interior is dust-protected.
- drives or front completely in IP54
- pre-stamped connector-board on the rear side for additional Sub-D connectors
- optional temperature-controlled fan

- high quality steel chassis yellow-chromated, front-board and door powder coated RAL 7035, other colours by request
- power supply 250W-115/230V DE/VDE/UL, optional 300W, optional redundant or DC
- OEM-versions by request

In addition to that, we offer a telescoping 19" chassis, as well as a table-chassis in reliable tci quality. Because of conscientious offered packages or individual configurations, you will receive a tci system for your special application. Table chassis drive-cage.

# 19" IPC



**motherboard  
with long  
availability**

## The IPC-B with motherboard:

The Industrial-PC with motherboard is suited for basic visualisation applications - wherever an economic solution is requested.

Industrial quality, to ensure the reliability of our computers even in hard working conditions:

- We only use quality components, which are well-tried and tested, e.g. Gigabyte or ASUS motherboards.
- The other hardware components are carefully installed in the 19" chassis, so that the system resists movements, vibrations, temperature fluctuations, dust and humidity
- Upon request motherboard systems with up to 6 ISA slots and with 3 years guaranteed delivery of the respective motherboard.

## ① Order information IPC-B/ATX

### Chassis + equipment:

IPC-B/ATX	ATX-motherboard, Intel CPU, RAM, HDD, FDD, CD-ROM
-----------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"><li>• temperature-, voltage- and software monitoring</li><li>• RS-232 and terminal board</li></ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

## The IPC-B with passive backplane:

### Plenty of slots

Passive backplane the flexible solution for up to 14 slots in different variations e.g. ISA, PCI, PIGMG or PISA. Also multiple systems - up to four - can be installed into one single IPC chassis.

### Watchdog

Because of the integrated watchdog, the IPCs with backplane are suitable for complex control systems.

### Robust and easy to maintain

Backplane-solutions can also be used for higher temperature. They can be upgraded, just by changing the CPU card, which makes the system upgrades easy.

### Long-term availability

Backplane solutions ensure the availability for a longer period than standard motherboard-solutions and therefore provide a more economic solution.

- slot-CPU: please see page 128
- backplane: please see page 130
  - free slots: max. 13 x PCI or 13 x ISA usability depending on technical equipment, please ask our consultants
- individual technical equipment upon request



## Order information IPC-B/PCI

### Chassis + equipment:

IPC-B/PCI	backplane BPAS-PCI-14-P11, CPU-card, ethernet, VGA 4 MB, watchdog onboard Intel CPU, RAM, HDD, FDD, CD-ROM
-----------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300 VA (instead of CD-ROM)
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# 19" IPC



## IPC-ECO

The IPC-ECO is an economic alternative to the IPC-B. The set-up is effected with the same utmost care and the same quality components are used. The system is well suited for critical applications.

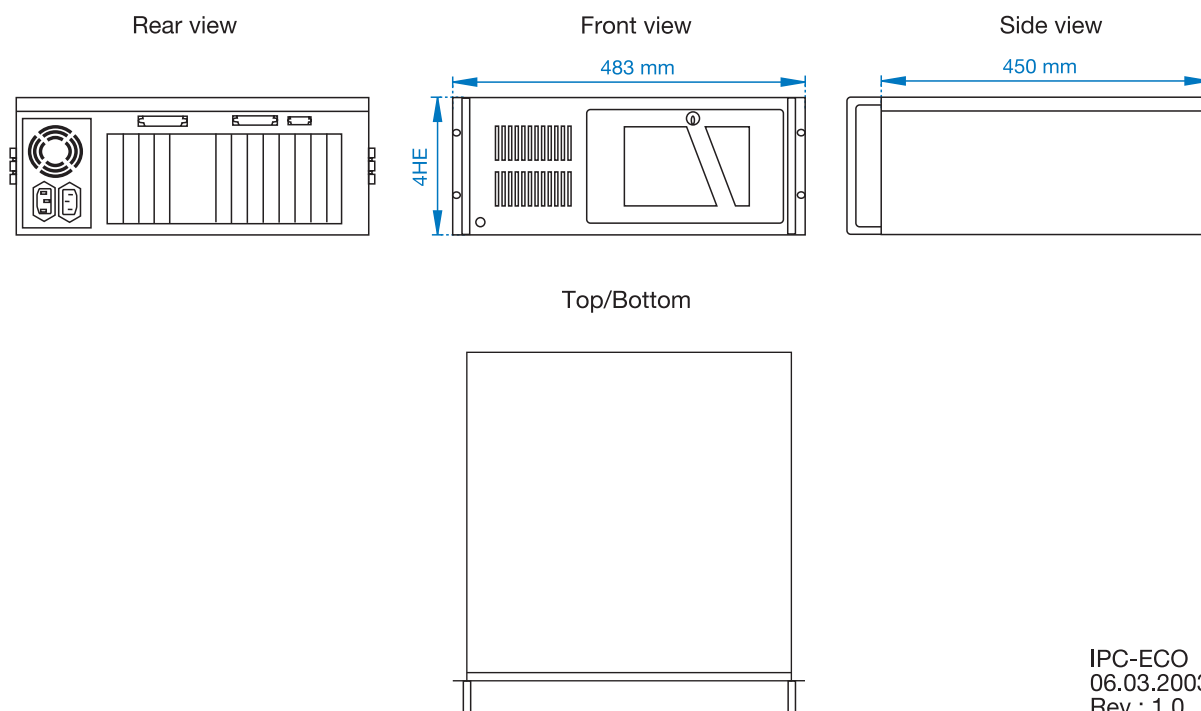


### **T** Technical data

- size: 4 U, 450 mm depth
- weight: 13 kg
- ATX-motherboard or Slot-CPU: please see page 128
- ATX-motherboard or 14-slot backplane, please see page 130
- free slots:
  - IPC-E5/ATX: 4 x PCI
  - IPC-E6/PCI: 13 x PCI or 13 x ISA
 usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- mounting possibility for 3 x 5.25" external, 1 x 3.5" external and 1 x 3.5" internal or 5 x 3.5" external and 1 x 3.5" internal
- drives on shockmounts
- lockable front door with built in acrylic-plastic pane (opens horizontal)
- overpressure in the chassis ensured through a powerful fan. The fan absorbs fresh air from the front. Therefore, the internal space is dust-protected.
- pre-stamped connector-board on the rear side for additional Sub-D connectors
- optional temperature-controlled fan
- steel chassis
- power supply 300W, 110-240VAC, redundant or DC



## ① Drawing



IPC-ECO  
06.03.2003  
Rev.: 1.0

## ① Order information IPC-ECO

### Chassis + equipment:

IPC-E/ATX	ATX motherboard, Intel CPU, RAM, HDD, FDD, CD-ROM
IPC-E/PCI	backplane BPAS-PCI-14-P11, CPU-card, ethernet, VGA, Intel CPU, RAM, HDD, FDD, CD-ROM

### Customized:

For other configurations please ask our system consultants.

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300VA
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>temperature-, voltage- and software monitoring</li> <li>RS-232 and terminal board</li> </ul>

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# 19" IPC



## IPC-S

The IPC-S is designed for applications requiring additional drive space. 4 x 5.25" and 1 x 3.5" drives are available. These drives are accessible from the front. Therefore, a server-system with RAID 5 can be provided without any additional drive subsystem. As system is individually configured you will receive a solid and reliable solution for your server application. The IPC-S offers the same fundamental quality features as the IPC-B.

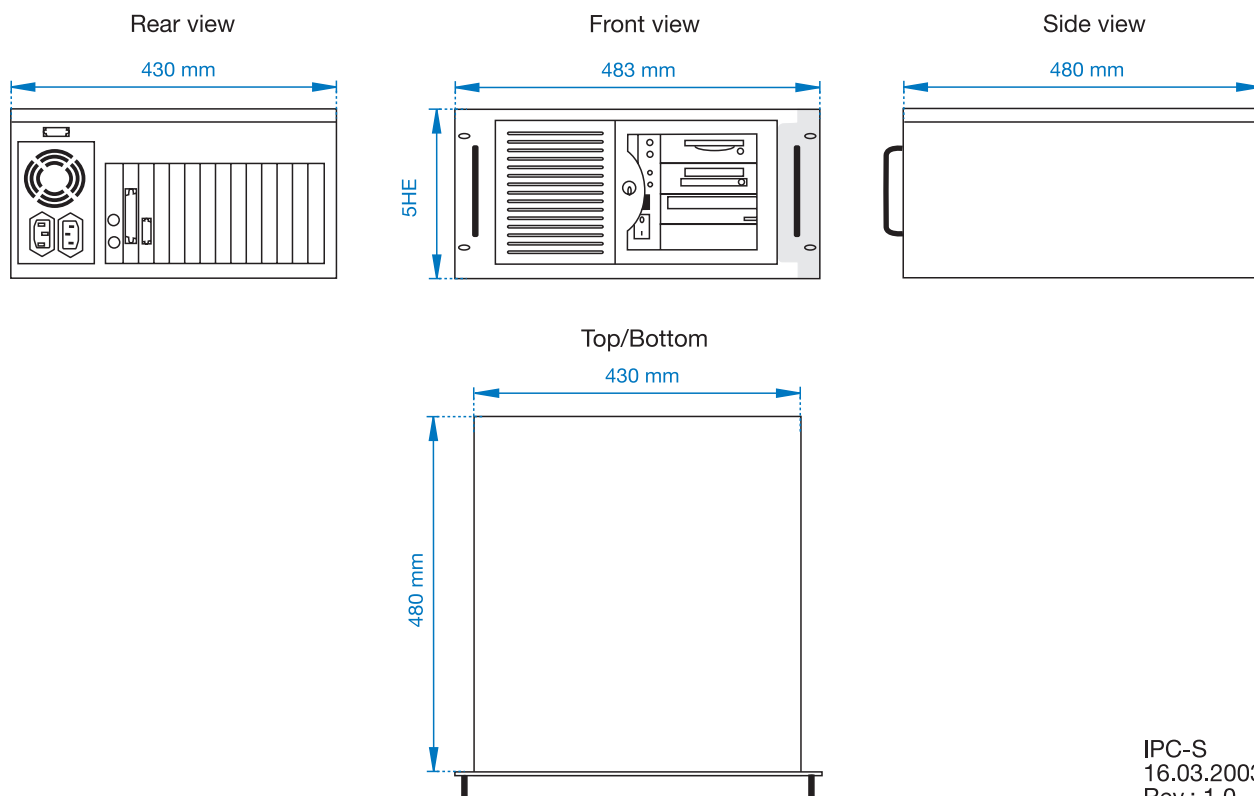


4x 5.25" extern and  
1x 3.5" extern

## Technical data

- 19" steel chassis
- overpressure venting, filter changeable from outside
- size: 5 U, 19", 480 mm depth
- mounting possibility for max. 4 x 5.25v and 1 x 3.5"
- ATX-motherboard or Slot-CPU: please see page 128
- ATX-motherboard or 14-Slot backplane, please see page 130
- free slots:
  - IPC-S/ATX: 4 x PCI
  - IPC-S/PCI: 13 x PCI or 13 x ISA
- usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- RAID system
- also available as ATX-version with redundant or DC power supply

## ① Drawing



IPC-S  
16.03.2003  
Rev.: 1.0

## ① Order information IPC-S

### Chassis + equipment:

IPC-S/ATX	ATX motherboard, ethernet, Intel CPU, RAM, HDD, FDD, CD-ROM
IPC-S/PCI	backplane BPAS-PCI-14-P11, CPU-card, ethernet, Intel CPU, RAM, HDD, FDD, CD-ROM

### Customized:

For other configurations please ask our system consultants.

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

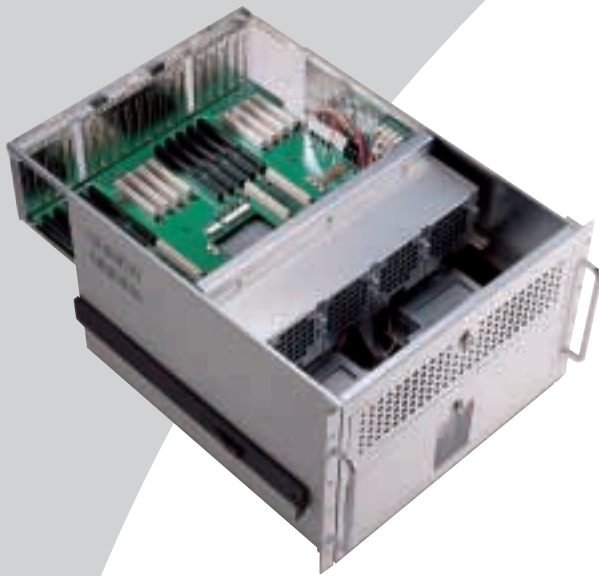
### Options:

USV-INT	internal UPS, 5.25", 300VA
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# 19" IPC



## IPC-3035

The IPC-3035 is specially designed for telecommunications- and server applications. The system can be equipped with up to 20 cards. The monitoring system controls the temperature from CPU and chassis as well as the fan speed and the function of the power supply. In case of failures there is an acoustical and optical alert. The IPC 3035 is suitable for rough environments and resists vibrations. The system works in a wide temperature range.

The set-up of the chassis allows easy access to installed components. Drives and fans can be exchanged without opening the chassis. The load is distributed among three power supplies. This extends the lifetime of each power supply.

Multi-system configuration possibilities: The choice of different backplanes with up to 20 slots offers the option of mounting up to 4 independent systems.

## Hot-Swap power supplies:

The IPC-3035 can be equipped with three different redundant power supplies: NT-ACE-R20A (AC) and NT-ACE-R20C (CD). The use of three power supplies in one chassis substantially extends reliability and lifetime of the system. If one of the power supplies fails, the others will take on the load, without interrupting the work. An acoustical alert and a warning light point to a malfunction. Exchanging is easy – you only have to remove the faulty power supply and exchange it without switching off the system.



## Easy exchangeable drives:

The IPC-3035 can contain up to 2 x 3.5" and 4 x 5.25" drives. The plug-in system enables the easy exchange of drives without opening the chassis.



## Exchangeable fans:

The IPC-3035 is equipped in the front and the rear with four exchangeable, speed controlled fans. In case malfunction happens, a monitoring-system alert occurs.

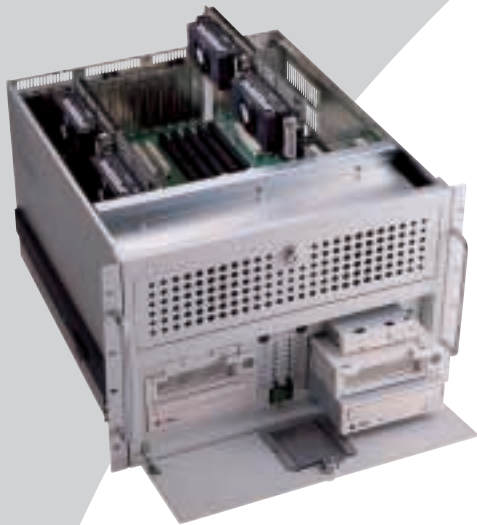


## Temperature controlling:

Four adjustable temperature sensors control the temperature within the CPU- and chassis. If the adjusted value is exceeded, an acoustical warning will occur. The accompanying control lamp switches from green to red.



# 19" IPC



## **T** Technical data

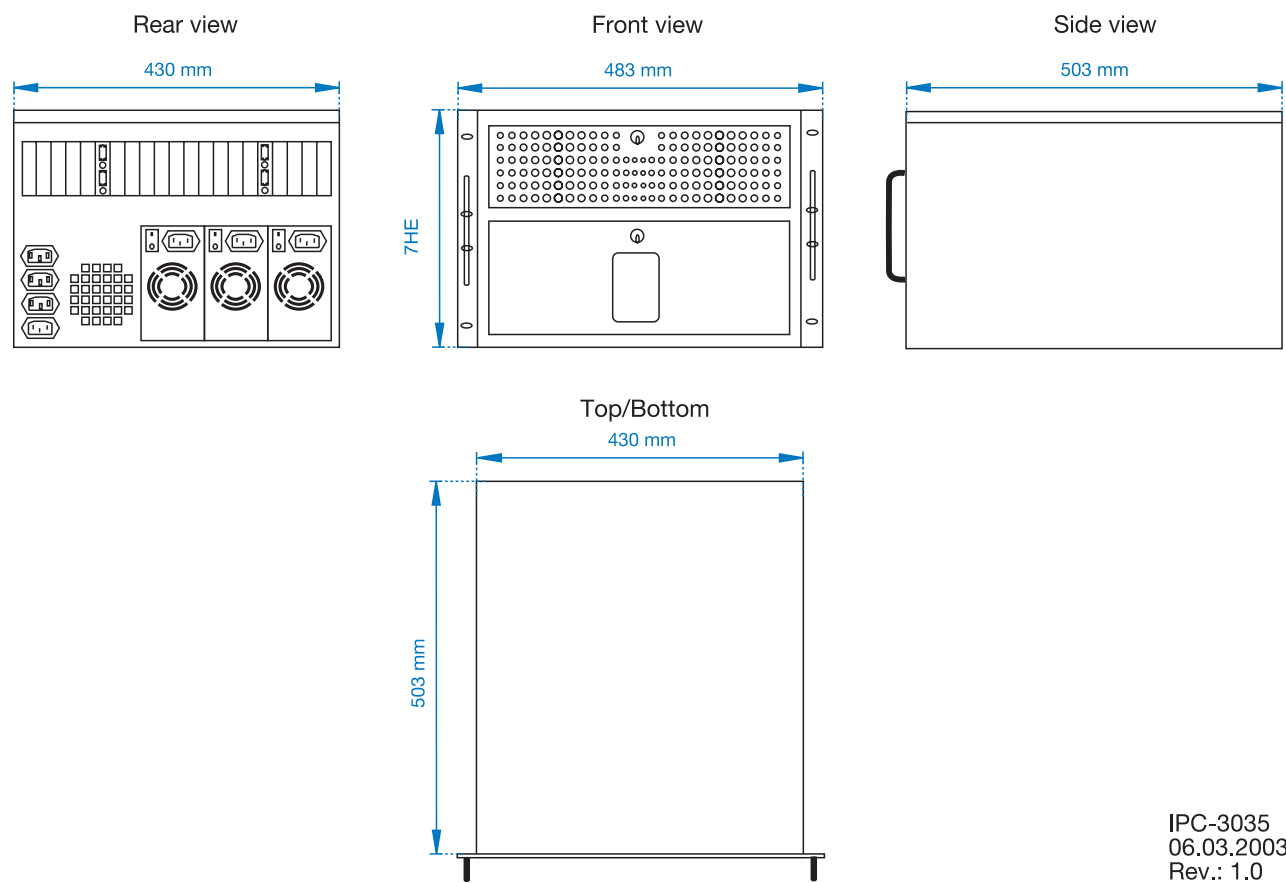
- 19" 7 U Server chassis in steel
- usable as rack- or table chassis
- mounting possibility for redundant triple - power supply (AC or DC)
- four ball-bearing fans on front side (changeable from outside), 1 fan on rear side
- two front accessible keyboard connectors
- central system monitoring for power supplies, venting and temperature sensors
- slot -CPU: please see page 128
- backplane: please see page 130  
free slots: 19x ISA or PCI  
usability depending on technical equipment,  
please ask our consultants
- individual technical equipment by request
- status LEDs on front side
- dimension: 431 x 311 x 503 (width, height, depth)

- Vibrations:  
5 up to 17 Hz, 0.1" double amplitude 17 up to  
640 Hz, 1.5 G peak to peak shock 10 G peak to peak

## **S** Specifications

- temperature range from 0 up to 50 °C
- relative humidity 5 up to 90 %, not condensing

Drawing



IPC-3035  
06.03.2003  
Rev.: 1.0

Order information IPC-3035

Chassis + equipment:

IPC-3035-5	backplane BPAS-PCI-19, CPU-card, watchdog, 2x NT-ACE-R20A, Intel CPU, RAM, HDD, FDD, CD-ROM
------------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

Customized:

For other configurations please ask our system consultants.

Options:

USV-INT	internal UPS, 5.25", 300 VA
WDT-ISA	watchdog card <ul style="list-style-type: none"><li>• temperature-, voltage- and software monitoring</li><li>• RS-232 and terminal board</li></ul>
NT-ACE-R20A	power supply 230 VAC (85 up to 265 V) 200 W, no PFC
NT-ACE-R20C	power supply +24 VDC (+19 V up to +30 V) 200 W
NT-ACE-R20T	power supply -48 V VDC (-36 V up to -72 V) 200 W

Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

## IPC for wall mounting



### The flexible background system

In many sizes and available with the most varied equipment options, our IPC'S for flexible installation operate quietly and reliably. Thanks to the integrated UPS – many of them even if there is a power failure.





	<b>IPC-TARGET</b>	<b>IPC-123</b>	<b>IPC-126</b>
mounting	wall mounting	wall mounting	wall mounting
drives accessible from outside	1x CD-ROM (optional)	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM 1x 5.25" (UPS)
motherbord	embedded board	-	-
backplane	-	3-slot	6-slot
measurement (mm)	298x245x97/ 243x255x131	342x255x97	342x255x176
discription	page 106-107	page 108-109	page 108-109

	<b>IPC-153</b>	<b>IPC-156</b>	<b>IPC-1514</b>	<b>IPC-15ATX</b>
mounting	wall mounting	wall mounting	wall mounting	wall mounting
drives accessible from outside	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM
motherbord	-	-	-	ATX
backplane	3-slot	6-slot	14-slot	-
measurement (mm)	396x322x144	396x322x203	402x322x220	402x322x202
discription	page 110-111	page 110-111	page 112-113	page 112-113

	<b>IPC-700</b>	<b>IPC-1000</b>	<b>IPC-1300</b>	<b>IPC-1500</b>
mounting	wall mounting	wall mounting	wall mounting	wall mounting
drives accessible from outside	1x FDD 2x CD-ROM	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM	1x FDD 1x CD-ROM
motherbord	-	-	-	-
backplane	7-slot	6-slot	3-slot	5-slot
measurement (mm)	321x279x176	421x321x176	296x254x94	296x254x132
discription	page 114	page 115	page 116	page 117

# TARGET



## IPC-TARGET

The IPC-Target features its simple mounting. At the front, all ports are easily reachable. For this system, 2 chassis variants are available as well (compact version or chassis with 2 free PCI-slots). Optionally, the IPC can be equipped with overpressure venting. The passively cooled ITX-Board ensures reliable performance. As alternative solution we can offer a board with Pentium technology. A coupling platine for CD-ROM and 2.5" HDD provides for cable reduced industrial structure and increased reliability. For hard environmental conditions, overpressure venting is available.



EP chassis with two free slots and overpressure venting



Flexible with two different mounting plates

## ① Technical data

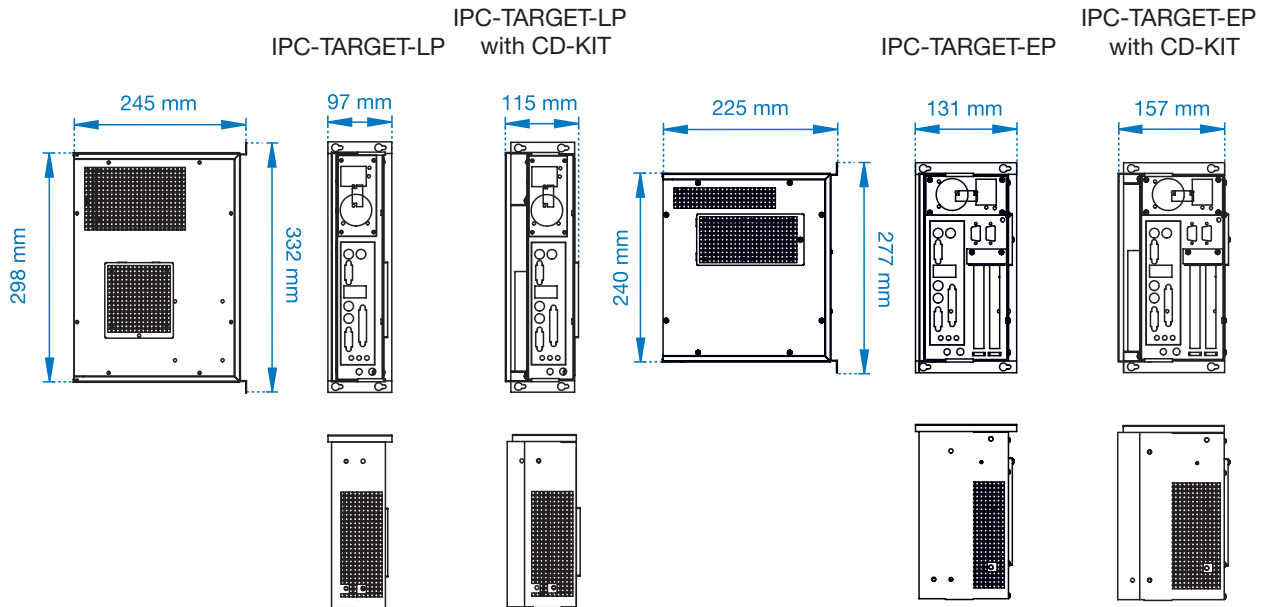
- modular chassis system of steel with up to two free slots
- variable cooling concept
  - overpressure venting
  - overpressure venting redundant
  - fanless
- flexible mounting with two different mounting plates
- LowPower-Equipment: ITX-board, VIA Eden chipset
- HighPerformance-Equipment: ITX-board, Pentium technology
- individual technical equipment on request
- equipped with HDD
- optional slimline CD-ROM

- interfaces:
  - ethernet 10/100Mbps, 2xUSB,
  - RS-232 depending of the board,
  - LPT, PS/2 for mouse and keyboard
- On/Off switch on the connection panel

## ② Specifications

- working temperature: 0 up to 50 °C (overpressure venting)
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC, 200W
- weight: 5 kg

## ④ Drawing



IPC-TARGET-LP  
IPC-TARGET-EP  
23.06.2005  
Rev.: 1.1

## ④ Order information IPC-TARGET

### Basicsystem:

IPC-TARGET	IPC for wall mounting with overpressure venting, ITX-board with VIA chipset, RAM, HDD, ethernet 10/100Mbps
------------	--

### Fanless:

GEH-TARGET-FL	available LowPower version
---------------	----------------------------

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Chassis:

Please choose the chassis version:

GEH-TARGET-LP	flat chassis, without slots
GEH-TARGET-EP	extended, 2 free slots

### Customized:

For other configurations please ask our system consultants.

### Drives:

CD-KIT-TARGET	slimline CD-ROM
---------------	-----------------

### Operating System:

DOS, WindowsNT, Windows2000, WindowsXP, Linux, others

# IPC for wall mounting



## IPC-123 and IPC-126

The IPC-123 and the IPC-126 are compact industrial computers for wall-mounting. In addition the IPC-126 offers an internal UPS providing regulated shut-downs in case of a power failure. Both types are equipped with FDD, HDD and CD-ROM.

### **T** Technical data

- compact IPC for wall mounting
- steel chassis
- optional stainless steel
- overpressure venting, filter changeable from outside
- Slot-CPU: please see page 128
- backplane: please see page 130
- free slots:
  - IPC-123: 2 x PCI or 1 x PCI and 1 x ISA
  - IPC-126: 3 x PCI and 2 x ISA or 5 x ISAusability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- equipped with FDD, HDD and CD-ROM
- IPC-126: optional with UPS

- ethernet 10/100 Mbps  
interfaces: 2 x RS-232, Parallel port, external VGA-port, keyboard port (PS/2), mouse port (PS/2)
- On/Off switch on cage side

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC,  
optional 12 VDC or 24 VDC
- weight:
  - IPC-123: 6 kg
  - IPC-126: 7.5 kg



# IPC for wall mounting



## IPC-153 and IPC-156

The IPC-153 and -156 extend the wall mounting systems of the PremiumLine. The A15 series was the basis as these systems are well-tried in industrial applications. The IPC-153 offers two additional free slots. The very flexible IPC-156 offers up to 5 free slots as well as FDD, HDD and internal CD-ROM.

### **T** Technical data

- compact IPC for wall mounting
- steel chassis
- optional stainless steel
- overpressure venting, filter changeable from outside
- slot-CPU: please see page 128
- backplane: please see page 130
- free slots:  
IPC-153: 2 x ISA, 2 x PCI or 1 x PCI and 1 x ISA  
IPC 156: 3 x PCI and 2 x ISA or 5 x ISA  
usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- equipped with FDD, HDD and CD-ROM  
IPC-126: optional with UPS
- ethernet 10/100 Mbps

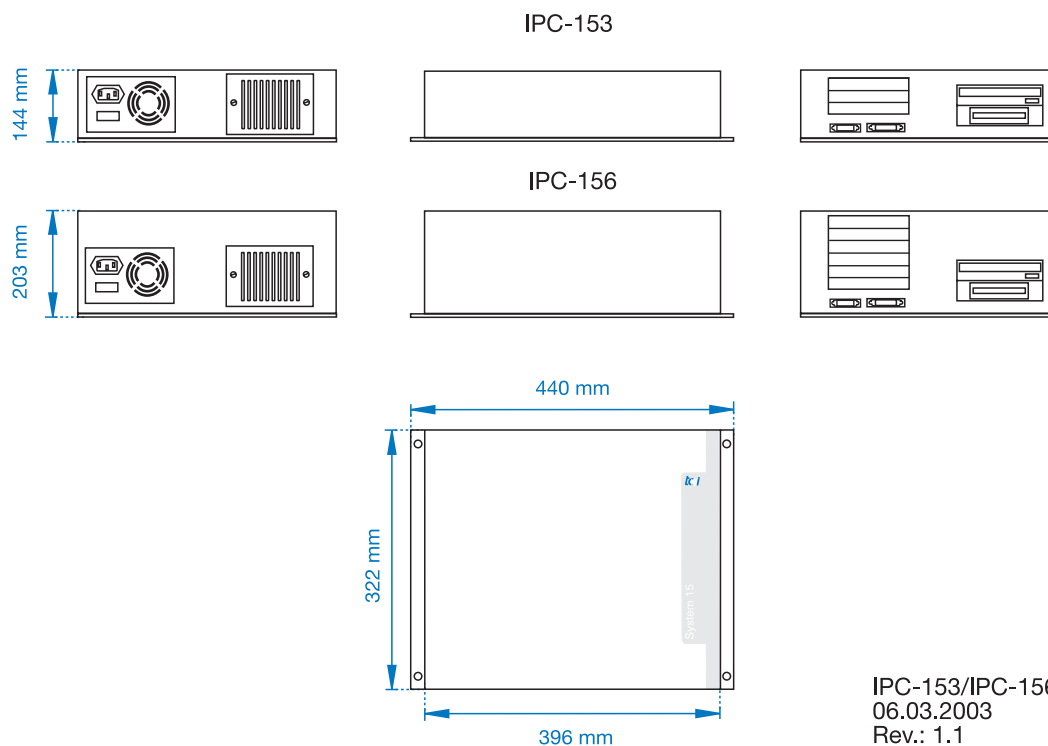
- interfaces: 2 x RS-232, Parallel port, external VGA-port, keyboard port (PS/2), mouse port (PS/2)
- On/Off switch on cage side

### **S** Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230 VAC, optional 12 VDC or 24 VDC
- weight:  
IPC-153: 10 kg  
IPC-156: 11 kg

# IPC-153 and IPC-156

## Drawing



## Order information IPC-153 and IPC-156

### Chassis + equipment:

IPC-153	backplane BPAS-PISA-03A, CPU-card, LAN 10/100 Mbps, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
IPC-156	backplane BPAS-PISA-06A, CPU-card, ethernet watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

USV-INT	internal UPS, 5.25", 300VA
GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# IPC for wall mounting



## IPC-1514 and IPC-15ATX

The IPC-15ATX is based on a standard ATX-motherboard and can be very flexible configured to your demands. The backplane version IPC-1514 offer a total 14 slots.



up to 13 free slots,  
easily accessible by dismantling card clamps



ATX-motherboard

## Technical data

- compact IPC for wall mounting
- steel chassis
- optional stainless steel
- overpressure venting, filter changeable from outside
- individual technical equipment with motherboard or 14-Slot backplane
- ATX-motherboard or 14-Slot-backplane, page 130  
free slots:  
IPC-1514: 4xPCI and 9xISA or 13xISA  
IPC-15ATX: 4xPC
- usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- equipped with FDD, HDD and CD-ROM  
IPC-126: optional with UPS

- ethernet 10/100Mbps
- interfaces: 2xRS-232, Parallel port, external VGA-port, keyboard port (PS/2), mouse port (PS/2)

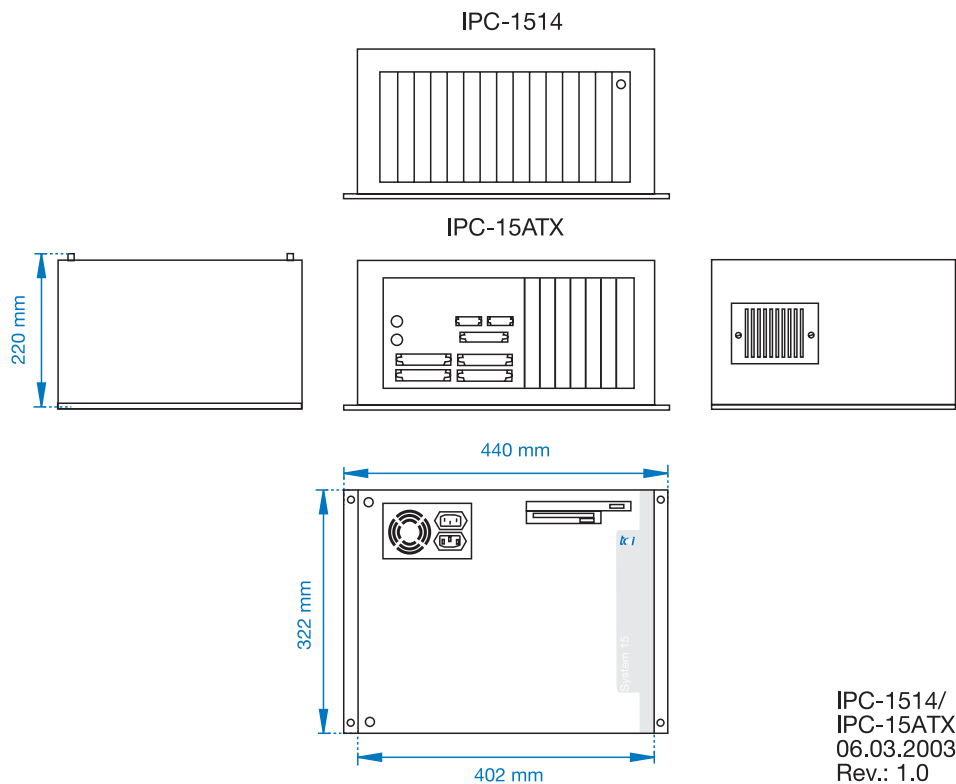
## Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- internal power supply 110/230VAC, optional 12VDC or 24VDC
- weight: 13 kg



# IPC-1514 and IPC-15ATX

## ① Drawing



## ① Order information IPC-1514 and IPC-15ATX

### Chassis + equipment:

IPC-1514	14-slot backplane BPAS-PISA-14, CPU-card, ethernet, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
IPC-15ATX	ATX-motherboard, Intel CPU, RAM, HDD, FDD, CD-ROM

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Customized:

For other configurations please ask our system consultants.

### Options:

GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

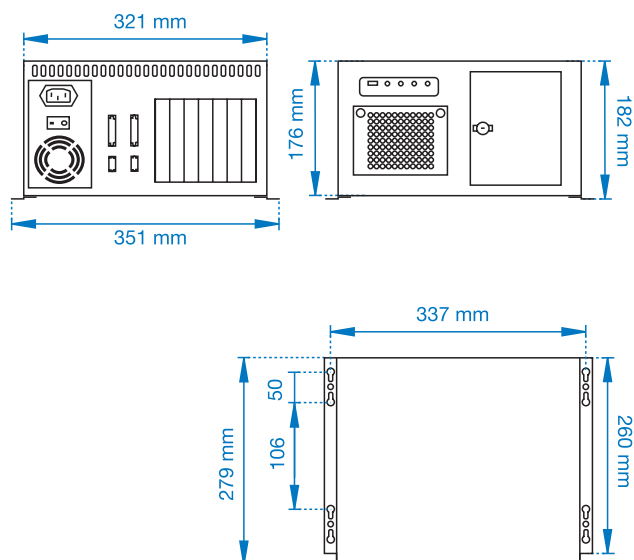
### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# IPC-700



## D Drawing



IPC-700  
06.03.2003  
Rev.: 1.1

## Technical data

- compact IPC with low dimension and CD-ROM for wall mounting
- filter and venting changeable from outside
- slot-CPU: please see page 128
- backplane: please see page 130  
free slots: 4xPCI and 2xISA or 6xISA  
usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- drives: 1x3.5" external, 1x5.25" external, 1x3.5" internal
- On/Off switch on cage side

## Specifications

- working temperature: 0 up to 50 °C
- colour: black-blue
- power supply 90Watt (85-256VAC), optional DC 12V, 24V, 48V

## Order information IPC-700

### Chassis + equipment:

IPC-700	backplane BPAS-PISA-07A, CPU-card, ethernet, VGA onboard, watchdog, Intel CPU, RAM, HDD, FDD, CD-ROM
---------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

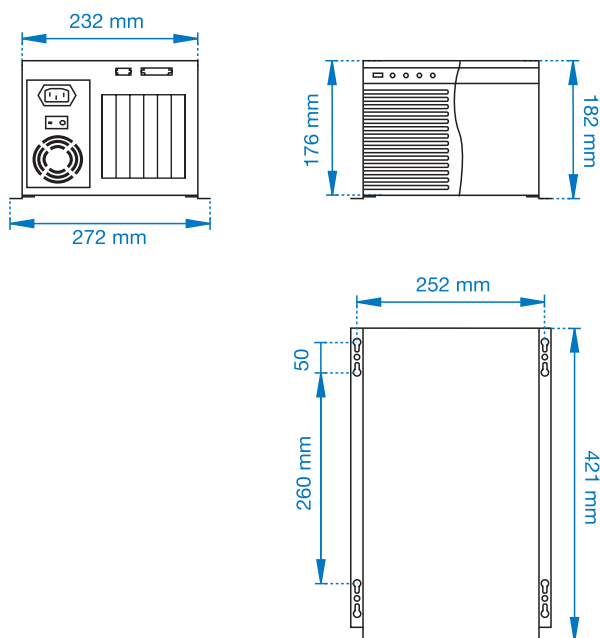
### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

## Drawing



IPC-1000  
06.03.2003  
Rev.: 1.1



## Technical data

- compact IPC for wall mounting offers space for long cards
- filter with changeable filter mat
- slot-CPU: please see page 128
- backplane: please see page 130  
free slots: 5x ISA and 2x ISA or 3x PCI  
usability depending on technical equipment, please ask our consultants
- individual technical equipment by request  
drives: 1x3.5" external, 1x5.25" external, 1x3.5" internal
- On/Off switch, reset switch behind protection door  
HDD-LED on case front

## Specifications

- working temperature: 0 up to 50 °C
- colour: black-blue
- power supply 200 Watt (85-256 VAC), optional DC 12V, 24V, 48V
- weight: 10kg

## Order information IPC-1000

### Chassis + equipment:

IPC-1000	backplane BPAS-PCI-06, CPU-card, ethernet, VGA onboard, watchdog Intel CPU, RAM, HDD, FDD, CD-ROM
----------	---

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

GEH-TEMP	temperature controlled fan
WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>

### Customized:

For other configurations please ask our system consultants.

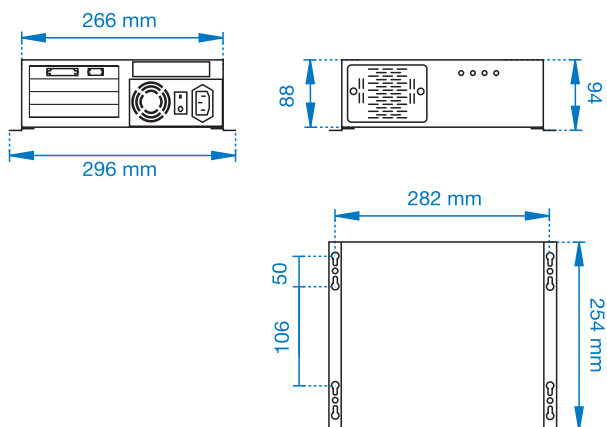
### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

# IPC-1300



## D Drawing



IPC-1300  
06.03.2003  
Rev.: 1.1

## Technical data

- compact IPC for wall mounting offers space for long cards
- filter with changeable filter mat
- slot -CPU: please see page 128
- backplane: please see page 130
- free slots: 5x ISA and 2x ISA or 3x PCI  
usability depending on technical equipment,  
please ask our consultants
- individual technical equipment by request
- drives: 1x 3.5" external, 1x 5.25" external,  
1x 3.5" internal
- mounting on 19" rack possible
- On/Off switch, reset switch behind protection door

## Specifications

- working temperature: 0 up to 50 °C
- colour: black-blue
- power supply 200 Watt (85-256 VAC), optional DC  
12V, 24V, 48V
- weight: 10 kg

## Order information IPC-1300

### Chassis + equipment:

IPC-1300	backplane BPAS-PISA-03A, CPU-card, ethernet, VGA onboard, watchdog Intel CPU, RAM, HDD, FDD, CD-ROM
----------	---

Configurational changes will be published on our  
homepage [www.tci.de](http://www.tci.de)

### Options:

WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>
---------	---

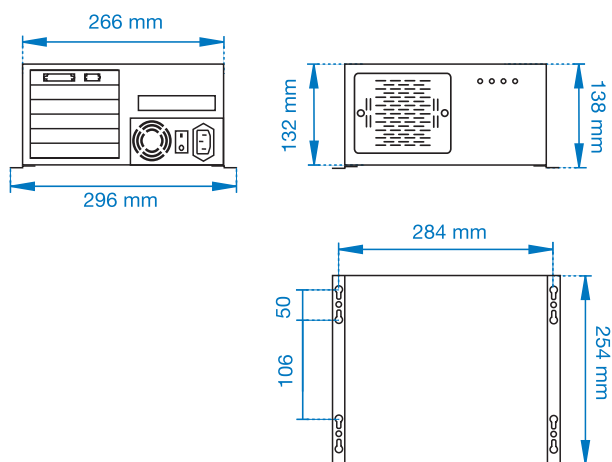
### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP,  
Linux and others

## Drawing



IPC-1500  
06.03.2003  
Rev.: 1.1



## Technical Data

- compact IPC with low dimension for wall mounting or 19" mounting
- filter and venting changeable from outside
- slot-CPU: please see page 128
- backplane: please see page 130  
free slots: 2xPCI or 2xISA  
usability depending on technical equipment, please ask our consultants
- individual technical equipment by request
- mounting on 19" rack possible
- drives: 1x3.5" external
- On/Off switch on case side

## Specifications

- working temperature: 0 up to 50 °C
- power supply 70 Watt (85-256 VAC), optional DC 12V, 24V, 48V
- weight: 6 kg

## Order information IPC-1500

### Chassis + equipment:

IPC-1500	backplane BPAS-PISA-05A, CPU-card, ethernet, VGA onboard, watchdog Intel CPU, RAM, HDD, FDD, CD-ROM
----------	--

Configurational changes will be published on our homepage [www.tci.de](http://www.tci.de)

### Options:

WDT-ISA	watchdog card <ul style="list-style-type: none"> <li>• temperature-, voltage- and software monitoring</li> <li>• RS-232 and terminal board</li> </ul>
---------	---

### Customized:

For other configurations please ask our system consultants.

### Operating system:

DOS, Windows98, WindowsNT, Windows2000, WindowsXP, Linux and others

## Overview Accessory and components



## Full Service right down to the details

As a real full-service company, we can provide you with a variety of accessories, which have been designed to be used with your tci products. We can also deliver individual components in the very best quality, whether as replacement part or for your own projects.

---

## Accessory and components

• Monitor mounting frame	120
• Mouse systems	121
• Keyboards	Keyboard drawer 122-123 Travel keyboards 124-125 Short travel keyboards 126-127
• CPU-Cards	128-129
• Backplanes	130-133
• CompactPower	134
• Watchdog card	135
• UPS	136

# The standard monitor in a 19" rack

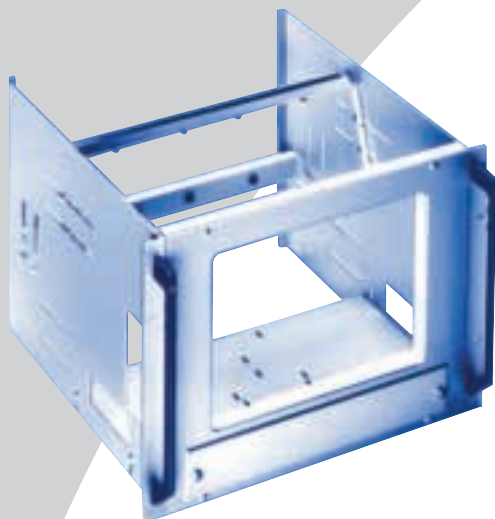


Table monitors of 15" and 17" can be integrated in your rack very easily and economically with the use of a mounting frame.\*

Upon request, tci can deliver suitable brand-name monitors for these mounting frames from Sony, Eizo or others. We would be pleased to discuss your specific requirements.

\*Conditions: suitable measurements of the monitors

## ① Technical data

- easy mounting
- Front plat with pane and removable clap for access to operating devices
- RAL 7035, other colours or aluminium front by request

## ② Specifications

- EBR-15 for mounting of 15" monitors  
8U, 425 mm depth
- EBR-17 for mounting of 15" and 17" monitors: 9U, 470 mm depth

## ③ Order information

### Monitor-mounting frame in a 19" rack

EBR-15	Mounting frame for 15" monitor
EBR-17	Mounting frame for 17" monitor

### Complete mounting frame with monitor

MON-EBR-15	Mounting frame with 15" monitor
MON-EBR-17	Mounting frame with 17" monitor



## Industrial track-ball

### Technical data

- Compatible: Microsoft, mouse-system and PS/2
- Connection on serial Interface (9 pol. SUB-D)
- PS/2 adapter included
- Safety class: IP20

### Specifications

- Measurement: 200x115x70 mm
- Weight: 600g

### Order information

---

MAUS-TR



## Durapoint mouse sensor

### Technical data

- For hardest environmental conditions
- Complete sealed and closed (IP67)
- Connection on serial interface (9 pol. SUB-D)
- PS/2 adapter included

### Specifications

- Measurement: 128x108x25 mm
- Weight: 700g

### Order information

---

MAUS-DP



# Keyboard drawer



Keyboard drawers for installation into a variety of 19"-cases for table-, wall- or upright standing chassis, for keyboard with a width up to 430 mm.

## 19" keyboard drawer 1 U with keyboard

19" keyboard drawer with suitable keyboard, lockable drawer, structure powder coated steel chassis, RAL 7035, solid drawer slide bar.

Mounting depth: 350 mm

### Order information

#### 19" keyboard drawer 1 U with keyboard

TAS-ES



## 19" keyboard drawer 1 U with keyboard and trackball

19" keyboard drawer with suitable keyboard and trackball, lockable drawer, structure powder coated steel chassis, RAL 7035, solid drawer slide bar.

Mounting depth: 350 mm

### Order information

#### 19" keyboard drawer 1 U with keyboard and trackball

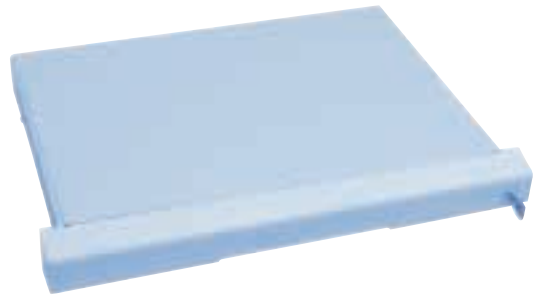
TAS-ES-TR

## 19" keyboard drawer 1 U

19" keyboard drawer for individual keyboards lockable drawer, structure powder coated steel chassis, RAL 7035, solid drawer slide bar.

Mounting depth: 350 mm

Keyboard height: max. 29 mm



### ① Order information

#### 19" keyboard drawer 1 U

---

TAS-LADE1

## 19" keyboard drawer 2 U with mouse pad

19" keyboard drawer for individual keyboards, lockable drawer with handle, folding front, retractable mouse pad, cable entry and pull relief

material: steel chassis with aluminium front, RAL 7035,

Mounting depth: 400 mm

Keyboard height: max. 51 mm

No space for mouse when drawer is closed.

Also usable for TAS-KOMPAKT-TPAD and

TAS-KOMPAKT-TR.



### ① Order information

#### 19" keyboard drawer 2 U with mouse pad

---

TAS-LADE2

# Travel keyboards



## Cherry-keyboard / MF II

- IBM and Windows compatible
- Membrane-contact-switch with soft-key force
- Splash proofed
- Optional: original Cherry with membrane (TKL-81) or gold-crosspoint (TKL-80) technology
- Environmentally friendly: „Blauer Engel“

## ① Order information

### Cherry-keyboard / MF II

---

TAS-CH OEM

---

TAS-CH-MEMBRAN

---

TAS-CH-GOLD



## MF2 long-travel keyboard IP 65

- IBM and Windows compatible, with windows keys
- Dust and splash protected IP 65
- Ergonomically set up
- Very comfortable because of long-travel keys
- Measurement: 459 x 160 x 25 mm

## ① Order information

### MF2 long-travel keyboard IP 65

---

TAS-STD-65



## Compact keyboard, IP 65

- For high typing speed. Dust protected and splash proof
- Safety class: IP 65
- MF II, 102 keys
- Optional: integrated finger mouse (Safety class IP 65)
- Dimension: 405 x 185 x 37 mm
- Suitable for 19" keyboard drawer 2 U

## ① Order information

### Compact keyboard, IP 65

---

TAS-KOMPAKT-65

---

TAS-KOMPAKT-65-MS with finger mouse

# Travel keyboards

## Cherry MF 19" compact keyboard

- IBM & Windows compatible
- Gold crosspoint (TKL-80)  
optional with membrane (TKL-81)
- Dimension: 405 x 179 x 37 mm
- Suitable for 19" keyboard drawer 2 U



## Order information

### Cherry MF 19" compact keyboard

TAS-KOMPAKT

## Cherry MF compact keyboard with trackball

- IBM & Windows compatible
- PS/2 connection (optional DIN adapter)
- Integrated track ball
- LED indicators for display of adjusted mode of operation
- Dimension: 370 x 139 x 20 mm
- Suitable for 19" keyboard drawer 1 U



## Order information

### Cherry MF compact keyboard with trackball

TAS-KOMPAKT-TR

## Cherry MF compact keyboard with touchpad

- IBM & Windows compatible
- Gold-Crosspoint technology
- Integrated touch-pad
- Dimension: 415 x 193 x 37 mm
- Suitable for 19" keyboard drawer 2 U



## Order information

### Cherry MF compact keyboard with touchpad

TAS-KOMPAKT-TPAD

# Short travel keyboards



Membrane covered short travel keyboards combine an optimal protection against external influences (IP65) with comfortable typing feeling because of a noticeably key travel. The use of high valued OMRON-keys guarantee a safe switch feeling.

## Compact table keyboard with integrated glidepad

- Very stylish and space-saving design
- Integrated capacitive glidepad
- Completely closed design membrane
- Keyboard suitable for industrial use in metal chassis, light grey
- Robust shielding front plat
- Dimension: 372 x 182 x 34 mm
- Suitable for 19" keyboard drawer 2 U
- Optional without glidepad with IP65

### ① Order information

#### Compact table keyboard with integrated glidepad

---

TAS-KHUB-SG



## Table keyboard IP 65

- Table keyboard with 104 keys
- Dust and splash protected (IP65 general)
- Edge embossed for key position
- ABS-plastic chassis
- Dimension: 372 x 182 x 34 mm

### ① Order information

#### Table keyboard IP 65

---

TAS-KHUB-SO



## Table keyboard with integrated glidepad

- Flat plastic chassis
- Integrated capacitive glidepad
- Dimension: 480 x 182 x 34 mm

### ① Order information

#### Table keyboard with integrated glidepad

---

TAS-KHUB-LG

# Short travel keyboards

## Built-in keyboard

- Front safety class IP 65
- Built-in version in 4 U front plat
- For mounting with pressed in threaded bolt (bolting from behind)
- Edge embossed for key position
- Dimension: 483x179x40 mm



## Order information

### Built-in keyboard

TAS-KHUB-AO

## 19" front plat keyboard

- Front safety class IP 65
- Key position marked through edge embossing
- Rear side with protecting plastic pan
- Dimension: 19", 4 U, 55 mm depth



## Order information

### 19" front plat keyboard

TAS-KHUB-TO      19" built-in version

## 19" front plat keyboard with integrated glidepad

- Built-in version for 19" rack
- With closed front plat or mounting elongated holes
- Integrated capacitive glidepad
- Dimension: 19", 4 U, 55 mm depth



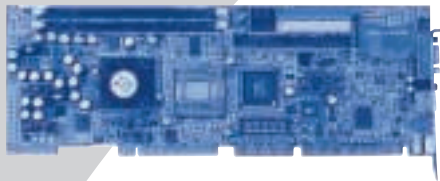
## Order information

### 19" front plat keyboard with integrated glidepad

TAS-KHUB-TG



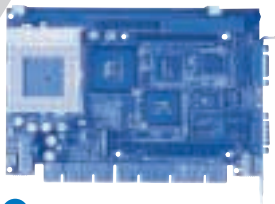
# CPU-cards



#1  
SCPU-VIA-C1000PCI-VGA-E



#2  
SCPU-P4PC12-VGA-E



#3  
SCPU-FC370TPISA-VGA-E



#4  
SCPU-LP5PISA-LCD-E

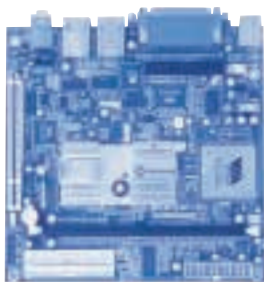


#5  
SCPU-MOBLPISA-LCD-E-FL

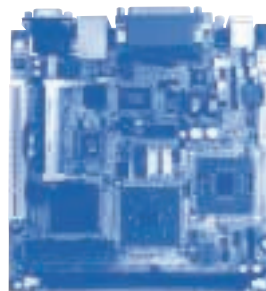
#1 SCPU-VIA-C1000PCI-VGA-E	#2 SCPU-P4PC12-VGA-E	#3 SCPU-FC370TPISA-VGA-E	#4 SCPU-LP5PISA-LCD-E	#5 SCPU-MOBLPISA-LCD-E-FL
CPU VIA C3 1000/Celeron	Socket 478 Intel Willamette/Northwood P4	370 Intel Tualatin P III/Celeron	CPU Embedded Intel MMX 266 MHz Low Power	CPU Intel Celeron M 600 MHz by fanless application optional: Socket 479M
133 MHz	400/533 MHz	66/100/133 MHz	266 MHz	400 MHz
PICMG, Full-Size	PICMG, Full-Size	PISA, Half-Size	PISA, Half-Size	PISA, Half-Size
8601A+686B	Intel 845E+	SiS630E	ALI EMB	Intel 855GM
2x DIMM SD-RAM max. 1 GB	2x DIMM DDR SD-RAM 200/266 MHz	1x DIMM SD-RAM 168 Pin max. 512 MB	1x DIMM SD-RAM 168 Pin max. 256 MB	1x DIMM DDR SD-RAM max. 1 GB 200/266/333 MHz
VIA 8601A	SiS 315 2D/3D Engine	SiS630E	C&T 69000	LVDS 24 Bit
Shared max. 8 MB	32 MB SD-RAM onboard	Shared max. 64 MB	2 MB	Shared max. 64 MB
1600x 1200	1600x 1200 (24 Bit)	1600x 1200 (16 Bit)	1280x 1024 (8 Bit)	1600x 1200 (24 Bit)
1x 10/100 Realtek RTL8100	1x 10/100 Intel i82562	1x 10/100 SiS630E	1x 10/100	1x 10/100 Intel 82562EZ PHY
3x 1.1	2x 1.1	2x 1.1	1x 1.1 on slot	2x 2.0
2x RS-232/1x LPT/1x IrDA (Pin Header) 1x USB 1.1 (1x Bracket)	2x RS-232/1x LPT/ 1x FDD/1x PS/2 1x IrDA (Pin Header)	2x RS-232/1x LPT/ 1x FDD/1x PS/2 1x IrDA (Pin Header)	3x RS-232/1x RS-232/422/485/1x LPT 1x IrDA (Pin Header)	1x USB 2.0, 3x RS-232, 1x RS-232/422/485, 1x LPT, 1x IrDA, 1x PS/2 1x Mini PCI Slot
2x ATA 100	2x ATA 100	1x ATA 100	1x ATA 33	2x ATA 100
AC'97	AC'97	AC'97	Soundblaster compatible 16 Bit	AC'97
yes	yes	no	no	yes
yes	yes	yes	yes	yes
no	no	no	no	no
1x Type II	1x Type II	1x Type II	no	1x Type II
yes	no	no	no	no



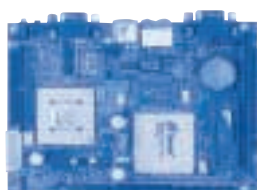
# CPU-cards



#6  
MB-B5/VIA-ITXCL6000E-FL



#7  
MB-B6MOBL/ITX-MB890



#8  
EMC3-P5X-5820/2



#9  
EMC3-VIA-E667/8-EV

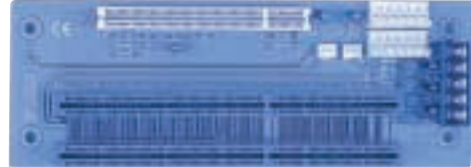
#6 MB-B5/VIA-ITXCL6000E-FL	#7 MB-B6MOBL/ITX-MB890	#8 EMC3-P5X-5820/2	#9 EMC3-VIA-E667/8-EV	
CPU VIA EPIA-CL6000E, VIA C3 600MHz CPU	Socket 479 M Celeron M/Pentium M	CPU Embedded MediaGXLV 300MHz	CPU VIA VT8606 + VT8231 667 MHz	CPU (socket)
133MHz	400 MHz	-	-	FSB
Mini-ITX	Mini-ITX	Embedded Board 3,5"	Embedded Board 3,5"	BUS, size
CLE266VT 8235	Chipset Intel 855GME + ICH 4	Geode GX1+CS5530A	VIA VT8606 + VT8231	system chipset
1xDIMM DDR SD-RAM max. 1 GB 200/266 MHz	1xDIMM DDR-RAM max. 1 GB 200/266/300 MHz	1xSODIMM max. 512 MB	1xDIMM SO-DIMM 144Pin, SD-RAM max. 512 MB	RAM slot
S3 Grafic Unichrome	LVDS (24 Bit)	-	VT8606, 1920x1440 LCD (32 Bit), LCD connector 50 Pin (36 Bit), 1600x1200	VGA-Controller
Shared max. 64 MB	Shared max. 64 MB	Shared max. 4 MB	Shared max. 32 MB	V-RAM
1600x1200 (24 Bit)	1600x1200 (24 Bit)	1280x1024 (8 Bit)	1920x1440 (32 Bit)	max. resolution
2x10/100	10/100 PHY 82562 EZ	1 x10/100	1 x10/100	network connection
2x2.0	4x2.0	2 x1.1	-	USB Pin header
2 xUSB 2.0, 1 xRS-232, 1 xLPT, 2 xPS/2	1xSlim-FDD, 1xLPT (SPP/EPP/ECP), 2xRS-232, 1 xPCI, 2xUSB 2.0, IrDA (Pin Header), 2 xPS/2, Audio	1 xLPT, 2xRS-232 (optional), 1 xRS-232/422/485	1 xLPT, 2xRS-232 (optional), 1 xRS-232/422/485, 2xUSB 1.1, 1 xIrDA	multi IO
2xATA 133	2xATA 100	1xATA 33	2xATA 100 (1 x44 Pin, 1 x40 Pin)	IDE channel
AC'97	AC'97	AC'97	AC'97	audio
no	no	no	no	hardware monitoring
no	no	yes	no	watchdog-timer
no	no	yes	no	PC 104
no	yes	no	1 xTypeII	compactflash-socket
no	no	no	no	DiskOnChip-socket

# Backplanes

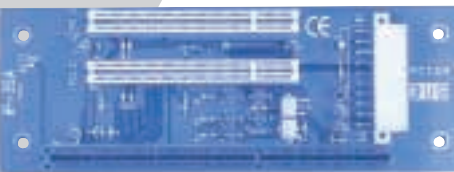
**A12-3, T15-ERG0, A15-3, IPC-123, IPC-153, IPC-1300**



**BPAS-PISA-03**  
(not for IPC-1300)



**BPAS-PISA-03I**  
(not for IPC-1300)



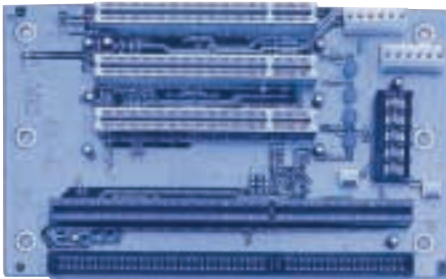
**BPAS-PISA-03A**



**BPAS-ISA-03**  
(only A15-3, IPC-153, IPC-1300)

---

## IPC-1500

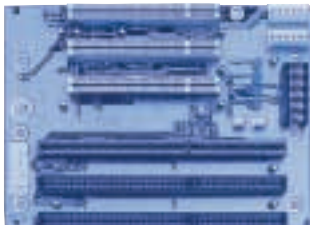


**BPAS-PISA-05A**

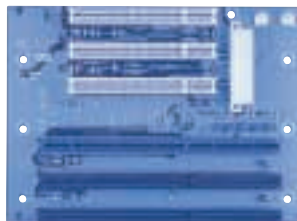


**BPAS-ISA-05**

## A12-6, A15-6, X15-6, IPC-126, IPC-156, IPC-1000



**BPAS-PISA-06**



**BPAS-PISA-06A**



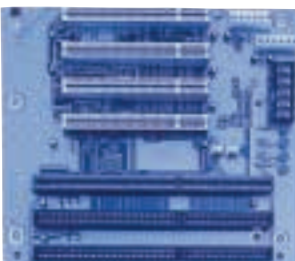
**BPAS-ISA-06**



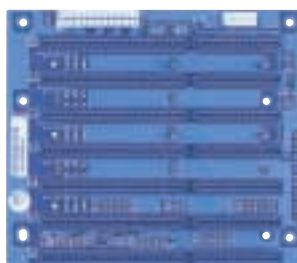
**BPAS-PCI-06**  
(only IPC-1000)

---

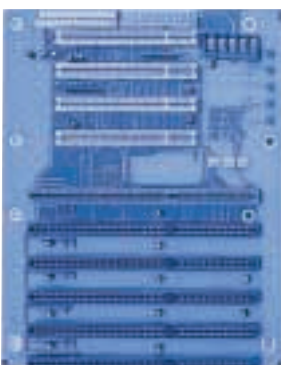
## IPC-700



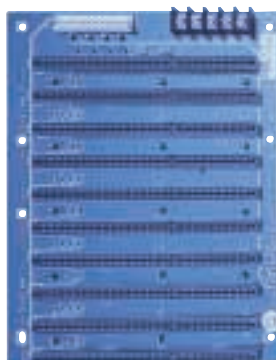
**BPAS-PISA-07A**



**BPAS-ISA-07**



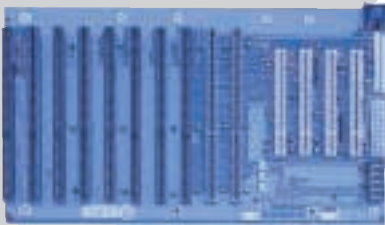
**BPAS-PISA-10**



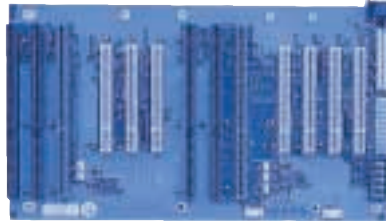
**BPAS-ISA-10**

# Backplanes

A15-14, X15-14, IPC-1514 (auch : IPC-6022, IPC-B, IPC-ECO, IPC-S)

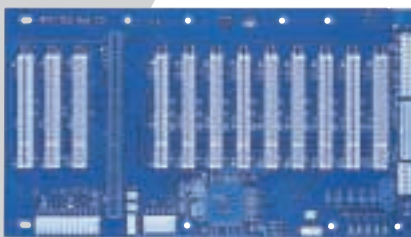


**BPAS-PISA-14**

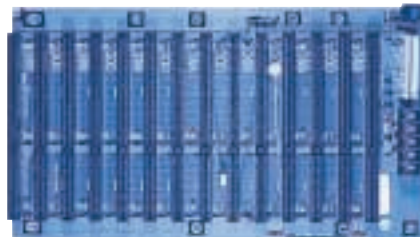


**BPAS-PISAS-13**

(2 segments  $\hat{=}$  2 IPC in only one chassis)



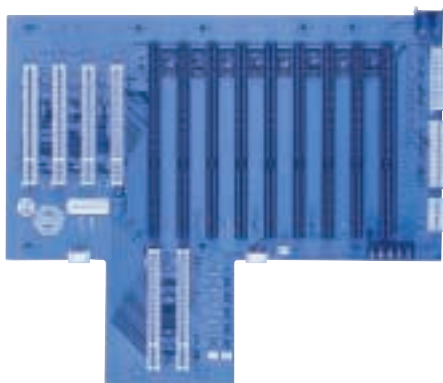
**BPAS-PISAX-13**



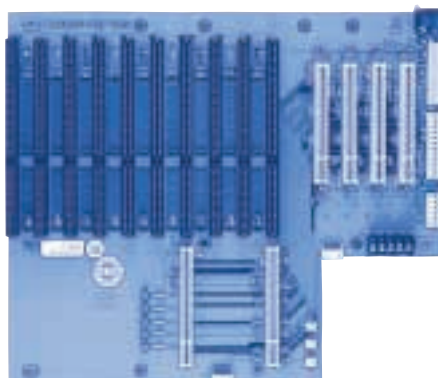
**BPAS-ISA-14**

---

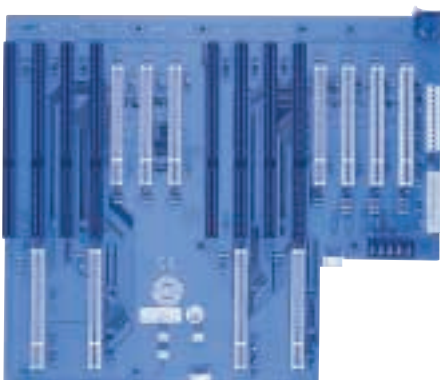
IPC-6022, IPC-B, IPC-ECO, IPC-S



**BPAS-PCI-13L**

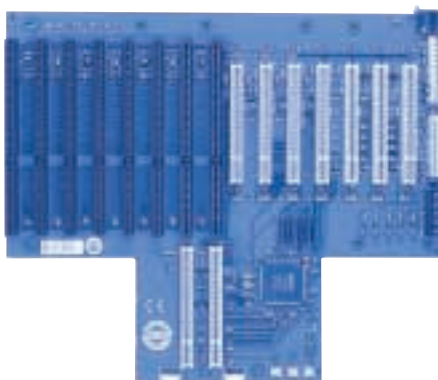


**BPAS-PCI-14-P11**



**BPAS-PCIS-13**

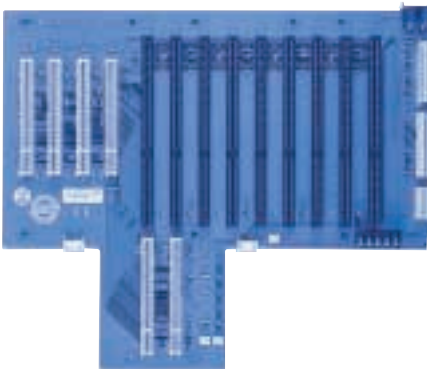
(2 segments  $\hat{=}$  2 IPC in only one chassis)



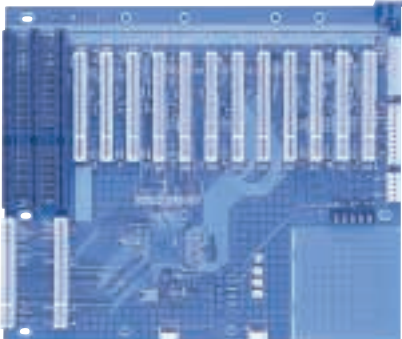
**BPAS-PCIX-14S**



**IPC-6022, IPC-B, IPC-ECO, IPC-S**

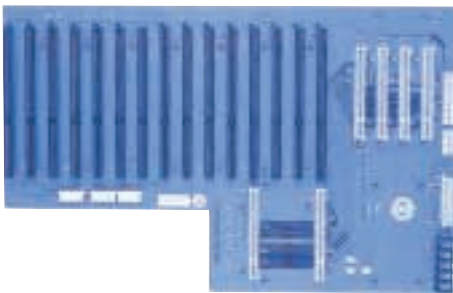


**BPAS-PCIX-13L**

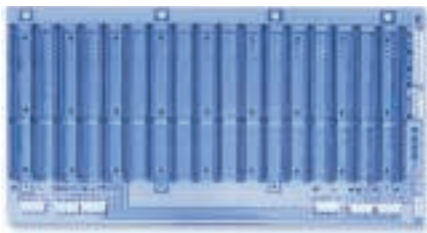


**BPAS-PCIX-14-PS3**

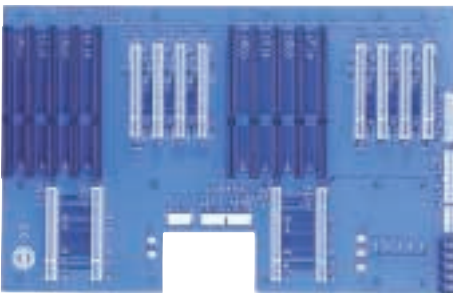
**IPC-3035**



**BPAS-PCI-19**



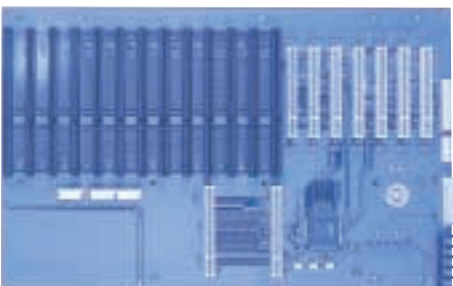
**BPAS-ISA-20**



**BPAS-PCIS-18**  
(2 segments  $\triangleq$  2 IPC in only one chassis)



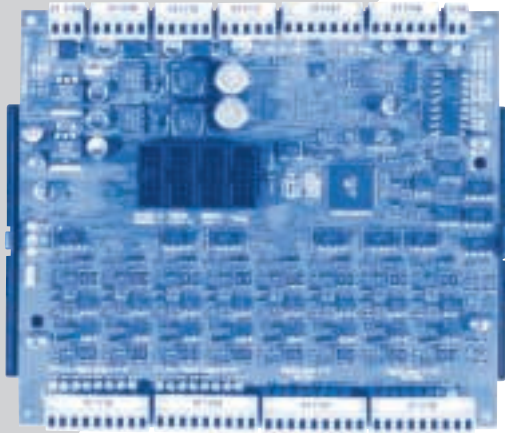
**BPAS-PCIS-17**  
(4 segments  $\triangleq$  4 IPC in only one chassis)



**BPAS-PCIX-19**



**BPAS-PCIX-20S2**



## CompactPower® from tci – powerfull controller

CompactPower® from tci is a compact, powerfull und free programmable controller developed for the automation and process technologies. Top hat rail mounting and industrial connectors ensure an easy and robust installation. It offers digital in- and outputs as well as a high quality conversion of analogue values. CompactPower® is equipped with a variety of process interfaces that can only be compared with modular and high-priced PLCs and provides additional functionality by supporting the programming languages C, PASCAL or ASSEMBLER .

### Technical data

- compact control system
- top hat rail mounting
- analogue value 14 bit
- interfaces:
  - 16 x digital input
  - 16 x digital output, 0.5 A, short circuit proofed
  - 2 x analogue output 0-10V 12 bit, optional 4-20 mA
  - 1 x analogue input 0-10V 14 bit
  - 2 x analogue input 0-10V 12 bit
  - 1 x PWM output 0.5 A, 16 bit
  - 3 x incremental encoder inputs 100 kHz
  - 1 x RS-232
  - 1 x RS-232, optional RS-422/-485

- programming: C, PASCAL or ASSEMBLER
- dimensions: approx. 160 x 130 x 30 mm

### Specifications

- working temperature: 0 up to 50 °C
- storage temperature: -20 up to 60 °C
- relative humidity: 5 up to 90 %, not condensing
- power supply 24 VDC

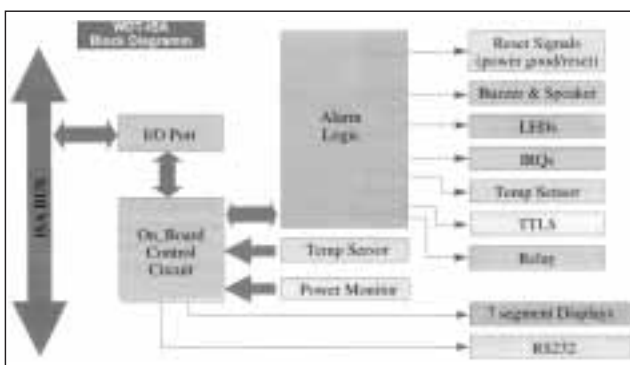
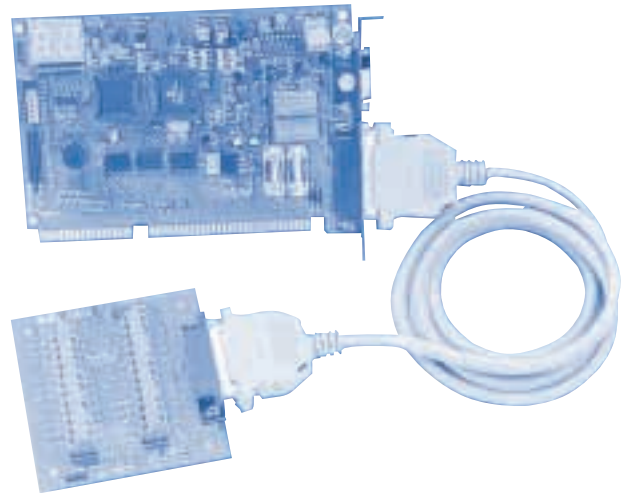
### Order information CompactPower

#### Control

CPOWER	control system CompactPower for top hat rail mounting
--------	---

The watchdog card WDT-ISA is suitable for monitoring your IPC. Overheating damages on your systems are avoided by temperature control. Furthermore it controls the internal and external power supply with the computer-power-monitor. The watchdog function controls the stable operation of programs.

Also available without terminal board.



## Technical data

- 16-bit ISA card
- watchdog timer (from 0.01 up to 167772.15 sec.)

### Temperature-control:

- from 0 up to 75 °C
- accuracy about 1 °C
- 2-place LED-display on card
- warning temperature adjustable (50 °C, 60 °C, 70 °C)

### Computer-Power-Monitor:

- internal +5V PC-Power
- external +12V

### Output RS232:

- temperature and timer status
- actual temperature
- voltage status

- watchdog status
- watchdog time interval

### Output terminalboard:

- TTL/Relais-various states
- status LEDs
- driver for Windows 95 and NT available
- loud speaker selection

- Start/Stop Watchdog timer
- watchdog time interval setting
- voltage alert signal switch
- voltage status
- temperature status
- watchdog status

## Order information

WDT-ISA      watchdog card 16-bit ISA

# USV



19" USV



USV-INT: Internal UPS  
in 5.25" format

The automatic voltage regulator from the UPS avoids harmful voltage fluctuations. Power surges and noise will be suppressed with the appropriate filter.

Therefore, the destruction of data files and hardware will be avoided and the lifetime of the system is extended.

The automatic and prompt switch on UPS-operation avoided loss of data if the network breaks down. The UPS takes on the power supply of the computer if the input voltage falls below a threshold value.

UPS-instruments are available in many variations for individual demands - for protection of separate computers, critical network components or special racks, as base protection or with special rating. Whether internal or external UPS, for 19" mounting or others, please let us know your individual needs. We would be very pleased to advise you.

## ① Order information

---

USV-INT	internal UPS, 5,25", 300 VA
different external UPS on request	



# Enquiry

**Copy, fill out and fax to: +49 6 41 / 9 62 84 -28**

Date:.....

Company:..... Customer number: .....

Street:.....

Zip code/Place: .....

Contact person: .....

E-mail: .....

Phone: .....

Fax:.....

## How did you first noticed tci?

☐ Fair ☐ Internet ☐ Advertisement/Magazine.....

## You are interested in:

- ☐ OEM solutions
- ☐ Industrial-Computer with TFT
- ☐ Embedded Software CE, XP, LX
- ☐ 19" IPC
- ☐ IPC for wall mounting
- ☐ LCD-monitor
- ☐ Terminal T15

Models:.....

## Equipment: (motherboard/backplane/slots/CPU/RAM/drives/VGA/touch/AC-DC power supply)

☐ Configuration according to the catalogue (Standard Edition SE)

☐ Others: .....

**Operating system:** .....

**Accessory:** (monitor/keyboard/mouse/UPS/watchdog) .....

**Application/Environment conditions:** .....

**Scope/Quantity:** .....

**Date for offer:** .....

**Contact person at tci:** .....

Even we have carefully arranged the texts, we can not guarantee, that there are no errors. We accept no responsibility for occurring errors. We reserve the right for technical modifications or modifications in design because of further development.

All used brand-names are registered trade marks of the manufacturers.



Presented by:

[www.tci.de](http://www.tci.de)

