

Industrial PCs

Industrial PCs for the control cabinet

The industrial PC solutions from Phoenix Contact offer top performance for your automation solutions in an industrial environment. Innovative products with the latest technology with a long-term availability ensure your productivity and investment.

You can choose from various versions in a modern industrial design customized to your requirements:

- Industrial PCs for the control cabinet
- Thin clients as input and output termination device
- Panel PCs for front panel installation

Irrespective of whether you create your own industrial PC solution using our extensive online configuration or opt for a pre-configured device - different processor versions, operating systems, screen diagonals and various numbers of slots allow optimal adaptation to your application.

Industrial PCs in the IP65 field

Control and monitoring close to the machine are becoming more and more important in modern systems. Industrial PCs without fans in a compact and lightweight IP65 aluminum die-cast housing are the ideal devices for this purpose. Thanks to various installation options, these can be used in any application irrespective of the machine control cabinets and thus enable ergonomic operation at different points of the systems or production lines.

The industrial PCs in IP65 also offer an optional WLAN interface as per IEEE 802.11 b/g for quick and easy network integration for those who wish for a futureoriented wireless network integration.

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You can find information regarding our product and solution-oriented services from page 11 onwards as well as in our online catalog (www.phoenixcontact.net/eshop).

Variety of versions for all applications

The requirements for a PC in an industrial environment are based on factors such as vibrations, cold, heat, electromagnetic radiation and dust. The increasing need for processor capacity due to more complex software solutions and the optimal equipment for every application are important requirements for every modern industrial PC.

Phoenix Contact industrial PCs have been designed for use in an industrial environment. We always offer you the optimal equipment for your application with the modular structure of the PCs and a choice of different display variants, processor capacities, main and data memories, operating systems and numbers of slots.

When developing the IPC range, Phoenix Contact only uses durable and high-quality components, thus guaranteeing high availability in order to secure your investment and to increase your productivity.

Flexibility thanks to selection options

The uniform industrial PC platforms from Phoenix Contact offer high flexibility thanks to individual selection options. Simply create your own IPC in our online configurator. The automatic plausibility check rules out configuration errors.



Intel[®] Core[™] 2 Duo technology

The Intel Core 2 Duo processors are characterized by high performance with low power consumption. The dual core processors with the latest 64 bit technology are manufactured in 45 nm and have up to 4 MB L2 cache that can be dynamically assigned to the two cores as required. Thus, a single process can also use the entire cache.

The power-saving techniques have also been optimized further in comparison with the predecessors and allow flexible switching on and off of individual processor parts. This minimizes the power dissipation of the processors and guarantees an improved performance per cycle.

Individual customer requirements

Customer-specific requirements play an important role when it comes to product positioning. Starting with easy labeling of devices with the customer-specific logo up to a complete redesigning of the device, a wide range of equipment can be implemented. Simply contact us to increase your competitive edge.

Always the ideal operating system for you

As a certified Gold Partner of Microsoft. we provide you with the operating system that is best suitable for your application.

Choose between Windows CE as a thin client system with low memory requirements and high performance, Windows XP embedded as a protected system for a minimized operating system size or Windows XP as an open and extensive operating system and make use of our know-how.



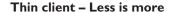


Control cabinet PC - Maximum performance with minimum space requirements

Phoenix Contact's compact control cabinet PCs are especially reliable and rugged PCs for machine and control cabinet installation.

The high performance with low space requirements leaves no wish unfulfilled. Furthermore, the advanced cooling concept based on fanless technology reduces maintenance cycles to a minimum.

The control cabinet PC can be fitted in a narrow as well as a flat design. This is applicable for DIN rail as well as panel mounting.



Not every system or production line requires a full-fledged panel PC at every operator terminal.

Inexpensive thin client devices from Phoenix Contact with the Windows CE or Windows XP embedded operating system as pure operator interfaces are a good alternative in such cases.

These offer several clear advantages: There are no rotating parts thanks to the fanless design and the use of Compact Flash cards. This makes the device extremely robust. Maintenance work such as regular air filter replacement is no longer necessary.

Panel PCs - A variety of versions

Rugged panel PCs with touchscreen and minimum installation depth are optimally suitable for operation and monitoring close to the machine, and their powerful processors offer a high performance for other tasks.

The panel PCs with IP65 front are especially characterized by their rugged, powerful and brilliant displays. Different display diagonals ranging between 12" and 19" allow the optimal solution for every customer-specific visualization, depending on the requirement. Front USB interfaces simplify startup and service.

The panel PCs are also equipped for future requirements thanks to the variable number of PCI slots.



Should your application require more slots, an extension module with two PCI slots can be configured when selecting the computing unit, thus providing equipment suitable for your application.





NetCap - Being everywhere at the same time

Phoenix Contact has developed the NetCap remote protocol for the operation of linked systems and processes.

NetCap uses the master/slave principle to make the screen information, keyboard and mouse available in the network via TCP/ IP, thus allowing remote operation through thin client devices that does not depend on the distance.





The operating housing solution

Rittal, one of the world's leading solution providers for housing and control cabinet technology, system air conditioning and IT solutions, offers a comfort panel configurator. This also contains panel systems from Phoenix Contact.

This tool helps in creating optimally tailored solutions for the man/machine interface. An intelligent consistency check has been integrated so that the configuration can be completed without any errors. At the end of the configuration, you can request a quotation and can see a visualized presentation of your individual operating housing solution. This can be directly incorporated into your machine and system configuration and thus saves extremely valuable engineering time. Additional information can be found at: http://www.rittal.com/services_support/ engineering/configurators/cp.html.

Space and cost reduction

Space requirements and cost reduction are becoming more and more important when it comes to investing in modern industrial systems. Phoenix Contact's fanless industrial PCs in a compact and lightweight IP65 aluminum die-cast housing thereby offer an optimal solution for direct machine installation. A modern industrial design combined with high-performance technology as well as ruggedness and longterm availability thus make the control cabinet redundant.

The industrial PCs in IP65 also offer an optional WLAN interface as per IEEE 802.11 b/g for quick and easy network integration for those who wish for a futureoriented wireless network integration.

Maintenance-free thanks to the fanless cooling concept

Modern industrial PCs in the sealed IP65 housing require an advanced cooling concept. Phoenix Contact uses a fanless technology that allows maintenance-free use of the devices for the customer.

The devices can also be equipped with Compact Flash cards as a storage medium for the operating system. These replace portable hard disks and further increase the device availability.

Energy efficiency due to low power dissipation

Thanks to the fanless structure and the possible avoidance of a conventional hard disk, this slim computer not only saves space but also scores more in the field of energy consumption. In particular, the new Atom processor is convincing due to its extremely low energy consumption of approx 4 watts, thus making an important contribution to Green IT.



Ergonomic and flexible

The direct and easy installation of the IP65 industrial PCs in the machine guarantees operation at different points of the systems or production lines, and the flexible arrangement allows an especially ergonomic operation of the devices by the



Intel[®] Atom™ technology

The use of a compact and energy-saving

Intel Atom processor extends the range of

This smallest Intel processor, designed

IP65 industrial PCs towards the low end.

as a 32 bit micro-processor, is especially

suitable for mobile and stationary industrial

PCs. These processors based on the 45 nm

Intel Atom architecture have been designed as particularly energy-saving and thus especially powerful processors.

Wireless - fast network integration

The flexible conditioning of the IP65 industrial PCs enables a wide range of applications.

For instance, an integrated WLAN interface allows fast and reliable connection to the existing infrastructure. The widerange power supply unit with 10-35 V DC and the transmission/reception frequency of 2.4 GHz and 5 GHz can, for instance, be advantageous for mobile use on forklifts or for decentral "stand-alone" solutions.



Different display diagonals

Rugged industrial PCs also require rugged and powerful displays.

The IP65 industrial PCs are characterized by brilliant displays. Different display diagonals ranging between 10" and 15" allow the optimal solution for every customer-specific visualization according to the requirements.



Brackets

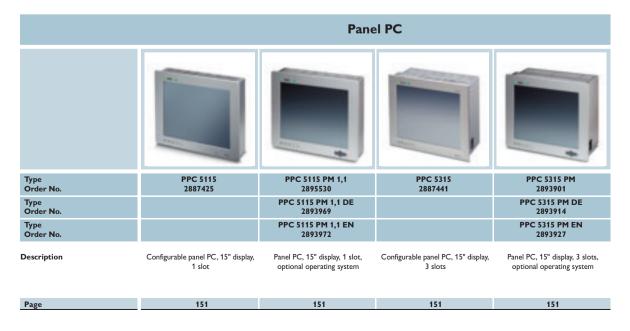
The flexible installation opens up various installation options for the IP65 industrial PCs. Depending on your requirements, you can choose between mounting brackets, table stands, VESA or a bracket adapters. A suitable keyboard support is also available if you wish to connect an external keyboard.











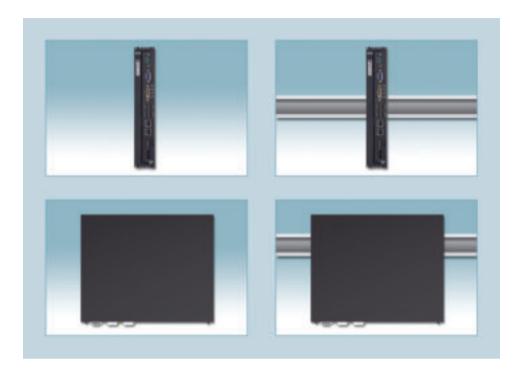
	Industrial PC with IP65							

Type Order No.	VMT 3015 2913674	VMT 5015 2887603	VMT 5015 SM 2900632	VMT 5015 PM 1,1 2900603				
Type Order No.			VMT 5015 SM DE 2900645	VMT 5015 PM 1,1 DE 2900616				
Type Order No.			VMT 5015 SM EN 2900658	VMT 5015 PM 1,1 EN 2900629				
Description	Configurable IP65 IPC with touchscreen, 15" display, Atom inside	Configurable IP65 IPC with touchscreen, 15" display	IP65 IPC with touchscreen, 15" display, optional operating system	IP65 IPC with touchscreen, 15" display, optional operating system				
Page	152	153	153	153				

			Accessories		
				4	6107°
Type Order No.	VMT HALTERUNG VESA 2900959	VMT GALGENANSCHLUSS- ADAPTER 2900962	VMT TISCHFUSS 2900946	VMT TASTATURABLAGE 420MM 2913331	VMT EXT PS 2900904
Type Order No.	VMT HALTEWINKEL LI/RE 2900933				
Description	Bracket for a monitor / industrial PC in IP65 housing	Bracket connection adapter for a monitor / industrial PC in IP65 housing	Table stand for a monitor / industrial PC in IP65 housing	Keyboard support	External power supply unit
Page	152	152	152	152	152



Industrial PC in the control cabinet



The new generation of industrial PCs from Phoenix Contact allows configuration of all components. This configuration is based on a modern control cabinet PC.

A scalable computing capacity with Celeron M or Core 2 Duo processors guarantees powerful and energy-saving operation.

Further configuration options such as the selection of main memory, data memory and operating system allow optimum adaptation to your requirements. The fully developed cooling concept based on fanless technology and optional use of an SSD as storage medium minimizes the maintenance cycles.

These can be used at ambient temperatures of up to 55 °C, thus facilitating the use in especially harsh industrial environments.

Two Gigabit Ethernet connections are provided for a quick and reliable connection to the available infrastructure. Further interfaces enhance the flexibility and adaptability to peripheral devices.

The individual components such as the battery, hard disk or compact flash card can be replaced after being installed, thus allowing easy maintenance and increasing the system availability.

Operating states are displayed using integrated LEDs and thus allow efficient self-diagnosis.

Thanks to the compact, reliable and rugged design, the control cabinet PCs are especially suitable for installation in machines and control cabinets. There are numerous installation options. The control cabinet PC can be fitted in a narrow as well as a flat design. This is applicable for DIN rail assembly as well as panel assembly.

Should your application require more slots, an extension module with two PCI slots can be configured when selecting the computing unit; this provides equipment to suit your application.

The compact control cabinet PC can naturally also be configured as a panel PC with a brilliant 15" and 17" display.

The rugged panel PCs with touch screen and low installation depth are perfectly suited for operation and monitoring in the vicinity of the machine. The powerful processors allow challenging visualization tasks or the processing of large data quantities.

Even with the panel PC version, it is possible to configure an extension module with two PCI slots when selecting the computing unit.

The new industrial PC generation from Phoenix Contact is being constantly extended. You can find the latest products in the e-shop.



VALUELINE IPC

Industrial computer, configurable

Description	Туре	Order No.	Pcs. Pkt.			
Industrial computer	VALUELINE IPC	2913108	1			
Technical data						
Display data						
Display (configuration option)	none 15 in. color touchscreen 17 in. color touchscreen					
Computer data						
Processor (configuration option)	Celeron® M 1.01 GHz Core2™ Duo 1.5 GHz					
Main memory (configuration option)	1 GB DDR SODIMM 2 GB DDR SODIMM 4 GB DDR SODIMM					
Data memory (configuration option)		2.5" HDD, 120 GB (SATA) 2.5" HDD, 160 GB (SATA) 2.5" HDD, 120 GB High Temperature (SATA) 2.5" HDD, 160 GB High Temperature (SATA)				
Optical drive	DVD-RW					
Interfaces	COM 1 (RS-232), 1x DVI-D, 1x VG	COM 1 (RS-232), 1x DVI-D, 1x VGA, 4x USB, 2x CompactFlash				
Monitor output	VGA, DVI-D					
Network	2x Ethernet (10/100/1000 Mbps), F	RJ45				
Power supply unit	24 V DC					
General data						
Degree of protection	IP65 (front), IP20 (back)					
Ambient temperature (operation)	5°C 55°C (Configuration options can affect th See user manual for details)	5°C 55°C (Configuration options can affect the operating temperature.				
Permissible humidity (operation)	5% 95% (non-condensing)					
Mounting type	Panel mount for control cabinet, wa	all mount, or bookshelf	mount			
Vibration (operation)	DIN EN 60068-2-6					
Shock	15g, 11 ms as per IEC 60068-2-27					

Thin client and panel PC

Phoenix Contact offers the right solution for every application. The especially narrow and inexpensive thin client devices without fans are, as a pure operator interface, an alternative for the complete panel PC. However, if your application requires a complete panel PC, the panel PCs from Phoenix Contact are the best solution for the future as well, thanks to the variable number of PCI slots.

Thin clients and panel PCs are available with different display variants, processor capacities, main and data memories as well as operating systems.

The display size and the number of slots can be detected from the order no. Thus, a PPC 5315 has three slots and a 15" display.

The seamless thin client or panel PC platforms from Phoenix Contact provide increased flexibility through individual selection options. Simply assemble your individual thin client or panel PC using our online configurator or select one of our configured devices.



PPC 5015 ...

Panel PC with touch screen and software keyboard, 15" display,

Description	Туре	Order No.	Pcs. / Pkt.		
Panel PC with touch screen and software keyboard, 15" display					
- Configurable	PPC 5015	2887991	1		
Panel PC with touch screen and software keyboard, 15" display			-		
- No operating system	PPC 5015 PM 1,1	2900661	1		
- Windows XP German	PPC 5015 PM 1,1 DE	2900674	1		
- Windows XP English	PPC 5015 PM 1,1 EN	2900687	1		
Panel PC with touch screen and software keyboard, 15" display, 1 slot					
- Configurable Panel PC with touch screen and software keyboard, 15" display, 1 slot					
- No operating system					
- Windows XP German					
- Windows XP English					
Panel PC with touch screen and software keyboard, 15" display, 3 slots					
- Configurable Panel PC with touch screen and software keyboard, 15" display, 3 slots					
o siols - No operating system - Windows XP German					
- Windows XP German - Windows XP English					
	PPC 5015	DDC 5015 DM 1			
Technical data Display data	PPC 5015	PPC 5015 PM 1,	I		
Display	15" TF	T active			
Monitor resolution	1024 x 768				
Display lighting	250 cd/m² typ., (adjustable)				
Touch screen	Resistive industrial touch screen				
Computer data					
Processor (configuration option)	Celeron M 800 MHz Celeron M 1 GHz Pentium M 1,1 GHz	Pentium M 1,1 GF	Ηz		
Main memory (configuration option)	256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM 2 GB DDR RAM	1 GB DDR RAM			
Compact flash (configuration option)	128 MB 256 MB 512 MB				
Data memory (configuration option)	1 GB	60 GB (UDMA)			
Optical drive (configuration option)		O-ROM			
Interfaces	COM 1 (RS232), 1xDVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 2x USB Optional 1x USB on front	COM 1 (RS232), 1xDVI 1x PS/2 mouse, 1x F keyboard, 2x USI 1x USB on front	PS/2 B		
Slots		MOO MIN DAG			
Network Power supply unit	1x Ethernet (10/100 Mbit), RJ45 24 V DC +/- 20%				
General data					
Degree of protection		IP20 (back)			
Ambient temperature (operation)		. 40°C			
Permissible humidity (operation) Mounting type	,	on-condensing) in front plate			
Vibration (operation)		60068-2-6			
Shock		0068-2-27			



PPC 5115 ...

Panel PC with touch screen and software keyboard, 15" display, 1 slot

DIN EN 60068-2-27



PPC 5315 ...

Panel PC with touch screen and software keyboard, 15" display, 3 slots

Туре	Order No.	Pcs./ Pkt.	Туре	Order No.	Pcs. / Pkt.
PPC 5115	2887425	1			
1100113	2007423				
PPC 5115 PM 1,1 PPC 5115 PM 1,1 DE PPC 5115 PM 1,1 EN	2895530 2893969 2893972	1 1 1			
			PPC 5315	2887441	1
			PPC 5315 PM	2893901	1
			PPC 5315 PM DE PPC 5315 PM EN	2893914 2893927	1
PPC 5115	PPC 5115 PM	1,1	PPC 5315	PPC 5315 PN	
15" TFT	active		15" TE	T active	
1024 x 768			1024	x 768	
250 cd/m² typ., (adjustable) Resistive industrial touch screen				o., (adjustable) rial touch screen	
Celeron M 800 MHz Celeron M 1 GHz Pentium M 1,1 GHz Pentium M 1.6 GHz Pentium M 1.8 GHz	Pentium M 1,1 0	GHz	Celeron M 800 MHz Celeron M 1 GHz Pentium M 1.6 GHz Pentium M 1.8 GHz	Pentium M 1.6 0	ЭНz
256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM 2 GB DDR RAM 512 MB 1 GB	1 GB DDR RA	М	256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM 2 GB DDR RAM	1 GB DDR RA	М
2.5" HDD min. 6	O GR (UDMA)		3.5" HDD min	160 GB (UDMA)	
No CD-ROM	o ab (obmin)		DVD burner DVD-ROM No CD-ROM	DVD burner	
COM 1, COM 2, COM 3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB 3x USB 1x USB on front			COM1, COM2, COM3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB Optional 1x USB on front COM1, COM2, COM3 (RS-232) 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB 3x USB		
	1x PCI/ISA shared 2x Ethernet (10/100 Mbit), RJ45 100 240 V AC, 50/60 Hz 100 240 V AC, 50/60 Hz			hared, 1x PCI /100 Mbit), RJ45 100 240 V AC, 50)/60 Hz
IP65 (front), IP20 (back) 5°C 45°C 10% 85% (non-condensing) Installation in front plate			5°C 10% 85% (n	IP20 (back) . 45°C on-condensing) in front plate	
DIN EN 60068-2-6			DIN EN 60068-2-6		

DIN EN 60068-2-27

Industrial PCs in IP65

The industrial PCs in IP65 have a modern industrial design along with powerful technology, thus making installation in the control cabinet redundant.

Thanks to the various installation options, the devices in the light and narrow IP65 aluminum die-cast housing are an optimal solution for direct installation in the machine.

If you also wish to have future-oriented wireless network integration, the industrial PCs in IP65 provide an optional WLAN interface as per IEEE 802.11 b/g for fast and easy network integration.

Simply assemble your individual industrial PC in IP65 using our online configurator or select one of our ready-to-use devices.



VMT 3015

Configurable IPC in IP65 with touch screen, 15" display, enclosed housing

Description	Туре	Order No.	Pcs. / Pkt.
IPC in IP65 with touch screen, 15" display - Configurable	VMT 3015	2913674	1
IPC in IP65 with touch screen, 15" display - No operating system - Windows XP German			
- Windows XP English Bracket as per VESA standard for a monitor / IPC in a IP65			
housing			
Output has a local left of the form of the CIDO in the IDOS have in	VMT HALTERUNG VESA	2900959	1
Support bracket left/right for a monitor / IPC in an IP65 housing			
	VMT HALTEWINKEL LI/RE	2900933	1
Table stand for a monitor / IPC in the IP65 housing			
	VMT TISCHFUSS	2900946	1
Bracket connection adapter for a monitor / IPC in the IP65	VIII TICOTII COC	2000040	· ·
housing			
Kaybaard starage for an IDC in the IDCS haveing	VMT GALGENANSCHLUSSADAPTER	2900962	1
Keyboard storage for an IPC in the IP65 housing			
	VMT TASTATURABLAGE 420MM	2913331	1
External power supply unit for an IPC in the IP65 housing			
	VMT EXT PS	2900904	1
Technical data	VIII EXTTO	2300304	'
Display data			
Display	15" TFT active		
Monitor resolution	1024 x 768		
Display lighting	250 cd/m² typ., (adjustable)		
Touch screen Computer data	Resistive industrial touch screen		
Processor (configuration option)	Atom 1.1 GHz		
. recesses (configuration opinion)	Atom 1.6 GHz		
Main memory (configuration option)	1 GB DDR2 RAM 2 GB DDR2 RAM		
Compact flash (configuration option)	-		
Data memory (configuration option)	Flash SSD 1 GB Flash SSD 2 GB Flash SSD 4 GB 2.5" HDD, min 40 GB , 24x7 Automotive		
Interfaces	COM 1 (RS-232), 1x PS/2 (mouse/keyboa 2x Mini PCI Express	rd), 2x USB,	
Optional interfaces Graphics card	Wireless LAN		
Graphics card Network	On-board graphics chip (AGP) 2x Ethernet (10/100/1000 MBit), RJ45		
Power supply unit	24 V DC +/- 20%		
Futured disconsists			
External dimensions			
Width	400 mm		
Width Height	305 mm		
Width Height Depth			
Width Height Depth General data	305 mm		
External dimensions Width Height Depth General data Degree of protection Ambient temperature (operation)	305 mm 65 mm		
Width Height Depth General data Degree of protection Ambient temperature (operation) Permissible humidity (operation)	305 mm 65 mm IP65 -20°C 50°C 10% 85% (non-condensing)		
Width Height Depth General data Degree of protection	305 mm 65 mm IP65 -20°C 50°C		



VMT 5015

Configurable IPC in IP65 with touch screen, 15" display, enclosed housing



VMT 5015 SM ...

IPC in IP65 with touch screen, 15" display, enclosed housing



VMT 5015 PM 1,1 ...

IPC in IP65 with touch screen, 15" display, enclosed housing

Туре	Order No.	Pcs./	Туре	Order No.	Pcs./	Туре	Order No.	Pcs./
1,700	01401110.	Pkt.	1,400	01401110.	Pkt.	1,400	Order No.	Pkt.
VMT 5015	2887603	1						
			VMT 5015 SM VMT 5015 SM DE VMT 5015 SM EN	2900632 2900645 2900658	1 1 1	VMT 5015 PM 1,1 VMT 5015 PM 1,1 DE VMT 5015 PM 1,1 EN	2900603 2900616 2900629	1 1 1
VMT HALTERUNG VESA	2900959	1	VMT HALTERUNG VESA	2900959	1	VMT HALTERUNG VESA	2900959	1
VMT HALTEWINKEL LI/RE	2900933	1	VMT HALTEWINKEL LI/RE	2900933	1	VMT HALTEWINKEL LI/RE	2900933	1
VMT TISCHFUSS	2900946	1	VMT TISCHFUSS	2900946	1	VMT TISCHFUSS	2900946	1
VMT GALGENANSCHLUSSADAPTER	2900962	1	VMT GALGENANSCHLUSSADAPTER	2900962	1	VMT GALGENANSCHLUSSADAPTER	2900962	1
VMT TASTATURABLAGE 420MM	2913331	1	VMT TASTATURABLAGE 420MM	2913331	1	VMT TASTATURABLAGE 420MM	2913331	1
VMT EXT PS	2900904	1	VMT EXT PS	2900904	1	VMT EXT PS	2900904	1
15" TFT active 1024 x 768 250 cd/m² typ., (adjustable) Resistive industrial touch screen			15" TFT active 1024 x 768 250 cd/m² typ., (adjustable) Resistive industrial touch screen			15" TFT active 1024 x 768 250 cd/m² typ., (adjustable) Resistive industrial touch screen		
Celeron M 800 MHz Celeron M 1 GHz			Celeron M 800 MHz			Pentium M 1,1 GHz		
Pentium M 1,1 GHz Pentium M 1.4 GHz 256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM			1 GB DDR RAM			1 GB DDR RAM		
2 GB DDR RAM 128 MB 256 MB 512 MB			-			-		
1 GB 2.5" HDD, min 40 GB , 24x7 Automotive			2.5" HDD, min 40 GB , 24x7 Automotive			2.5" HDD, min 40 GB , 24x7 Automotive		
COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 line out Wireless LAN	2 keyboard, 2x	USB,	COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 line out	2 keyboard, 2x	USB,	COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 line out	2 keyboard, 2x	USB,
On-board graphics chip (AGP) 1x Ethernet (10/100 Mbit), RJ45 24 V DC +/- 20%			On-board graphics chip (AGP) 1x Ethernet (10/100 Mbit), RJ45 24 V DC +/- 20%			On-board graphics chip (AGP) 1x Ethernet (10/100 Mbit), RJ45 24 V DC +/- 20%		
395 mm 292 mm 65 mm			395 mm 292 mm 65 mm			395 mm 292 mm 65 mm		
IP65 -20°C 45°C 10% 85% (non-condensing) Depending on the configuration DIN EN 60068-2-6 DIN EN 60068-2-27			IP65 -20°C 45°C 10% 85% (non-condensing) Depending on accessories DIN EN 60068-2-6 DIN EN 60068-2-27			IP65 -20°C 45°C 10% 85% (non-condensing) Depending on accessories DIN EN 60068-2-6 DIN EN 60068-2-27		