

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 light-weight 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 future-oriented 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).

Industrial PCs

Industrial PCs for the control cabinet – Technical description

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.

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.

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.



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.



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.



Thin client – Less is more

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.



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.

Industrial PCs

Industrial PCs in the IP65 field – Technical description

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 light-weight 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 long-term 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 future-oriented 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

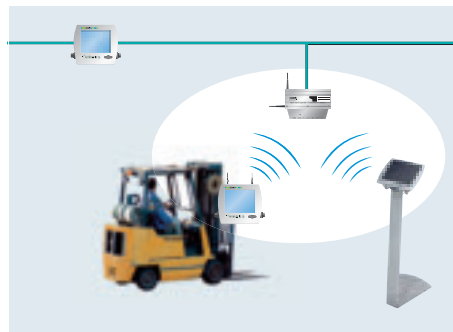
The direct and easy installation of the IP65 industrial PCs in the machine guarantees operation at different points of the systems or production lines, and the flexible arrangement allows an especially ergonomic operation of the devices by the user.



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 wide-range 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.



Intel® Atom™ technology

The use of a compact and energy-saving Intel Atom processor extends the range of IP65 industrial PCs towards the low end.

This smallest Intel processor, designed 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.



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.






Control cabinet PC

		
Type Order No.	VL IPC 2913108	VL IPC 2913108
Description	Configurable control cabinet PC, without display	Configurable control cabinet PC, 15" or 17" display
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Thin client

		
Type Order No.	PPC 5015 2887991	PPC 5015 PM 1,1 2900661
Type Order No.		PPC 5015 PM 1,1 DE 2900674
Type Order No.		PPC 5015 PM 1,1 EN 2900687
Description	Configurable panel PC, 15" display, no slot	Panel PC, 15" display, no slot, optional operating system
Page	150	150






Panel PC

				
Type Order No.	PPC 5115 2887425	PPC 5115 PM 1,1 2895530	PPC 5315 2887441	PPC 5315 PM 2893901
Type Order No.		PPC 5115 PM 1,1 DE 2893969		PPC 5315 PM DE 2893914
Type Order No.		PPC 5115 PM 1,1 EN 2893972		PPC 5315 PM EN 2893927
Description	Configurable panel PC, 15" display, 1 slot	Panel PC, 15" display, 1 slot, optional operating system	Configurable panel PC, 15" display, 3 slots	Panel PC, 15" display, 3 slots, optional operating system
Page	151	151	151	151

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

					
Type	VMT HALTERUNG VESA	VMT GALGENANSCHLUSS-ADAPTER	VMT TISCHFUSS	VMT TASTATURABLAG 420MM	VMT EXT PS
Order No.	2900959	2900962	2900946	2913331	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

Software

Security

			
Type Order No.	NETCAP MASTER ... SLAVE 2739...	VISU+ 2 2988544	FL MGUARD PCI/533 VPN 2989417
Description	Industrial remote control software for PCs	Development license for Visu+ projects	Firewall/router in PCI format, VPN support, processor cycle frequency 533 MHz
Page	www.phoenixcontact.net/eshop	51	179

Industrial PCs

Industrial PCs for the control cabinet

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	Type	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) Solid State Drive, 64 GB (SATA)		
Optical drive	DVD-RW		
Interfaces	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), 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 the operating temperature. See user manual for details)		
Permissible humidity (operation)	5% ... 95% (non-condensing)		
Mounting type	Panel mount for control cabinet, wall 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, no slot

Description	Type	Order No.	Pcs. / Pkt.
Panel PC with touch screen and software keyboard, 15" display			
- Configurable			
Panel PC with touch screen and software keyboard, 15" display	PPC 5015	2887991	1
- 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			
- No operating system			
- Windows XP German			
- Windows XP English			
Technical data	PPC 5015	PPC 5015 PM 1,1	
Display data	15" TFT active 1024 x 768 250 cd/m ² typ., (adjustable) Resistive industrial touch screen		
Computer data	Celeron M 800 MHz Celeron M 1 GHz Pentium M 1,1 GHz	Pentium M 1,1 GHz	
Processor (configuration option)			
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 1 GB		
Data memory (configuration option)	2.5" HDD min. 60 GB (UDMA)		
Optical drive (configuration option)	No CD-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 (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 2x USB 1x USB on front	
Slots	1x Ethernet (10/100 Mbit), RJ45		
Network	24 V DC +/- 20%		
Power supply unit			
General data	IP65 (front), IP20 (back) 5°C ... 40°C 10% ... 85% (non-condensing) Installation in front plate DIN EN 60068-2-6 DIN EN 60068-2-27		
Degree of protection			
Ambient temperature (operation)			
Permissible humidity (operation)			
Mounting type			
Vibration (operation)			
Shock			



PPC 5115 ...

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



PPC 5315 ...

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

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PPC 5115	2887425	1	PPC 5315	2887441	1
PPC 5115 PM 1,1	2895530	1	PPC 5315 PM	2893901	1
PPC 5115 PM 1,1 DE	2893969	1	PPC 5315 PM DE	2893914	1
PPC 5115 PM 1,1 EN	2893972	1	PPC 5315 PM EN	2893927	1
PPC 5115			PPC 5315		
PPC 5115 PM 1,1			PPC 5315 PM		
15" TFT active 1024 x 768 250 cd/m ² typ., (adjustable) Resistive industrial touch screen			15" TFT active 1024 x 768 250 cd/m ² typ., (adjustable) Resistive industrial 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 256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM 2 GB DDR RAM 512 MB 1 GB	Pentium M 1,1 GHz	1 GB DDR RAM	Celeron M 800 MHz Celeron M 1 GHz Pentium M 1.6 GHz Pentium M 1.8 GHz 256 MB DDR RAM 512 MB DDR RAM 1 GB DDR RAM 2 GB DDR RAM	Pentium M 1.6 GHz	1 GB DDR RAM
2.5" HDD min. 60 GB (UDMA) No CD-ROM			3.5" HDD min. 160 GB (UDMA) DVD burner DVD-ROM No CD-ROM		
COM 1, COM 2, COM 3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB	COM 1, COM 2, COM 3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB	1x USB on front	COM 1, COM 2, COM 3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB Optional 1x USB on front	COM 1, COM 2, COM 3 (RS-232), 1x LPT, 1x DVI (VGA), 1x PS/2 mouse, 1x PS/2 keyboard, 3x USB	
1x PCI/ISA shared 2x Ethernet (10/100 Mbit), RJ45			2x PCI/ISA shared, 1x PCI 2x Ethernet (10/100 Mbit), RJ45		
100 ... 240 V AC, 50/60 Hz 24 V DC +/- 20%	100 ... 240 V AC, 50/60 Hz		100 ... 240 V AC, 50/60 Hz 24 V DC +/- 20%	100 ... 240 V AC, 50/60 Hz	
IP65 (front), IP20 (back) 5°C ... 45°C 10% ... 85% (non-condensing) Installation in front plate DIN EN 60068-2-6 DIN EN 60068-2-27			IP65 (front), IP20 (back) 5°C ... 45°C 10% ... 85% (non-condensing) Installation in front plate 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	Type	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	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 housing	VMT GALGENANSCHLUSSADAPTER	2900962	1
Keyboard storage for an IPC in the IP65 housing	VMT TASTATURABLAG 420MM	2913331	1
External power supply unit for an IPC in the IP65 housing	VMT EXT PS	2900904	1
Technical data			
Display data			
Display	15" TFT active		
Monitor resolution	1024 x 768		
Display lighting	250 cd/m ² typ., (adjustable)		
Touch screen	Resistive industrial touch screen		
Computer data			
Processor (configuration option)	Atom 1.1 GHz 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/keyboard), 2x USB, 2x Mini PCI Express		
Optional interfaces	Wireless LAN		
Graphics card	On-board graphics chip (AGP)		
Network	2x Ethernet (10/100/1000 MBit), RJ45		
Power supply unit	24 V DC +/- 20%		
External dimensions			
Width	400 mm		
Height	305 mm		
Depth	65 mm		
General data			
Degree of protection	IP65		
Ambient temperature (operation)	-20°C ... 50°C		
Permissible humidity (operation)	10% ... 85% (non-condensing)		
Mounting type	Depending on the configuration		
Vibration (operation)	DIN EN 60068-2-6		
Shock	DIN EN 60068-2-27		



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

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
VMT 5015	2887603	1	VMT 5015 SM	2900632	1	VMT 5015 PM 1,1	2900603	1
			VMT 5015 SM DE	2900645	1	VMT 5015 PM 1,1 DE	2900616	1
			VMT 5015 SM EN	2900658	1	VMT 5015 PM 1,1 EN	2900629	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 TASTATURABLAG 420MM	2913331	1	VMT TASTATURABLAG 420MM	2913331	1	VMT TASTATURABLAG 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

Celeron M 800 MHz
Celeron M 1 GHz
Pentium M 1,1 GHz
Pentium M 1.4 GHz
256 MB DDR RAM
512 MB 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

COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 keyboard, 2x USB, line out
Wireless LAN
On-board graphics chip (AGP)
1x Ethernet (10/100 Mbit), RJ45
24 V DC +/- 20%

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

15" TFT active
1024 x 768
250 cd/m² typ., (adjustable)
Resistive industrial touch screen

Celeron M 800 MHz

1 GB DDR RAM

-

2.5" HDD, min 40 GB , 24x7 Automotive

COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 keyboard, 2x USB, line out
-
On-board graphics chip (AGP)
1x Ethernet (10/100 Mbit), RJ45
24 V DC +/- 20%

395 mm
292 mm
65 mm

IP65
-20°C ... 45°C
10% ... 85% (non-condensing)
Depending on accessories
DIN EN 60068-2-6
DIN EN 60068-2-27

15" TFT active
1024 x 768
250 cd/m² typ., (adjustable)
Resistive industrial touch screen

Pentium M 1,1 GHz

1 GB DDR RAM

-

2.5" HDD, min 40 GB , 24x7 Automotive

COM 1 (RS-232), 1x PS/2 mouse, 1x PS/2 keyboard, 2x USB, line out
-
On-board graphics chip (AGP)
1x Ethernet (10/100 Mbit), RJ45
24 V DC +/- 20%

395 mm
292 mm
65 mm

IP65
-20°C ... 45°C
10% ... 85% (non-condensing)
Depending on accessories
DIN EN 60068-2-6
DIN EN 60068-2-27