



HMIs and industrial PCs

Design, quality, and service
that are ready for the future

HMI and industrial PCs

Design, quality, and service that are ready for the future

Human-machine interfaces (HMIs) and industrial personal computers (IPCs) are essential for the efficient operation and monitoring of systems and machines. From PCs installed directly on the machine for field operation to complex visualization concepts for extensive automation systems – you will find the right solution for your application within the Phoenix Contact product portfolio.



1 HMI panels

For applications in industry

- HMIs with an open web browser

➤ More information starting on page 8

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2 Industrial PCs

IPCs for industrial applications of all types

- Box PCs
- Touch monitors
- Panel PCs
- Rackmount PCs
- Programmable edge computers

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HMI and industrial PCs

Design, quality, and service that are ready for the future

Are you looking for intelligent solutions for the operation and monitoring of machines and systems? Phoenix Contact offers a wide range of robust and reliable technology, from HMIs and powerful industrial PCs to custom solutions for special industrial requirements. We will provide you with an impressive package that delivers exceptional design, quality, and service.

✓ Design

Our HMIs and industrial PCs offer an attractive and intuitive product design. Compact and functional, they can be incorporated seamlessly into your system or machine design and are the perfect interface between users and machines.

✓ Quality

Made by Phoenix Contact – you can rely on our promise of quality. Our focus is to provide durable components that meet industry standards and stringent requirements. Our HMI and IPC portfolio is produced from high-quality and reliable components and always offers particularly high performance.

✓ Service

Benefit from our comprehensive services. From product selection to retrofitting your existing industrial systems, we work with our customers to develop the perfect concept for individual automation tasks.

✓ Ready for the future – open automation

Our HMI/IPC portfolio is ready for open automation solutions. The runtime of our edge PCs features all the advantages of the PLCnext Technology ecosystem. Benefit from simple integration into an existing IT infrastructure through centralizing data in the cloud, closing the gap between the IT and OT worlds.

Phoenix Contact eXtended Reality

View our HMI and IPC products in true-photo resolution with interactive 360° control.

Using PXR

To launch PXR, scan the QR codes in the document with the camera on your mobile device or QR code reader.

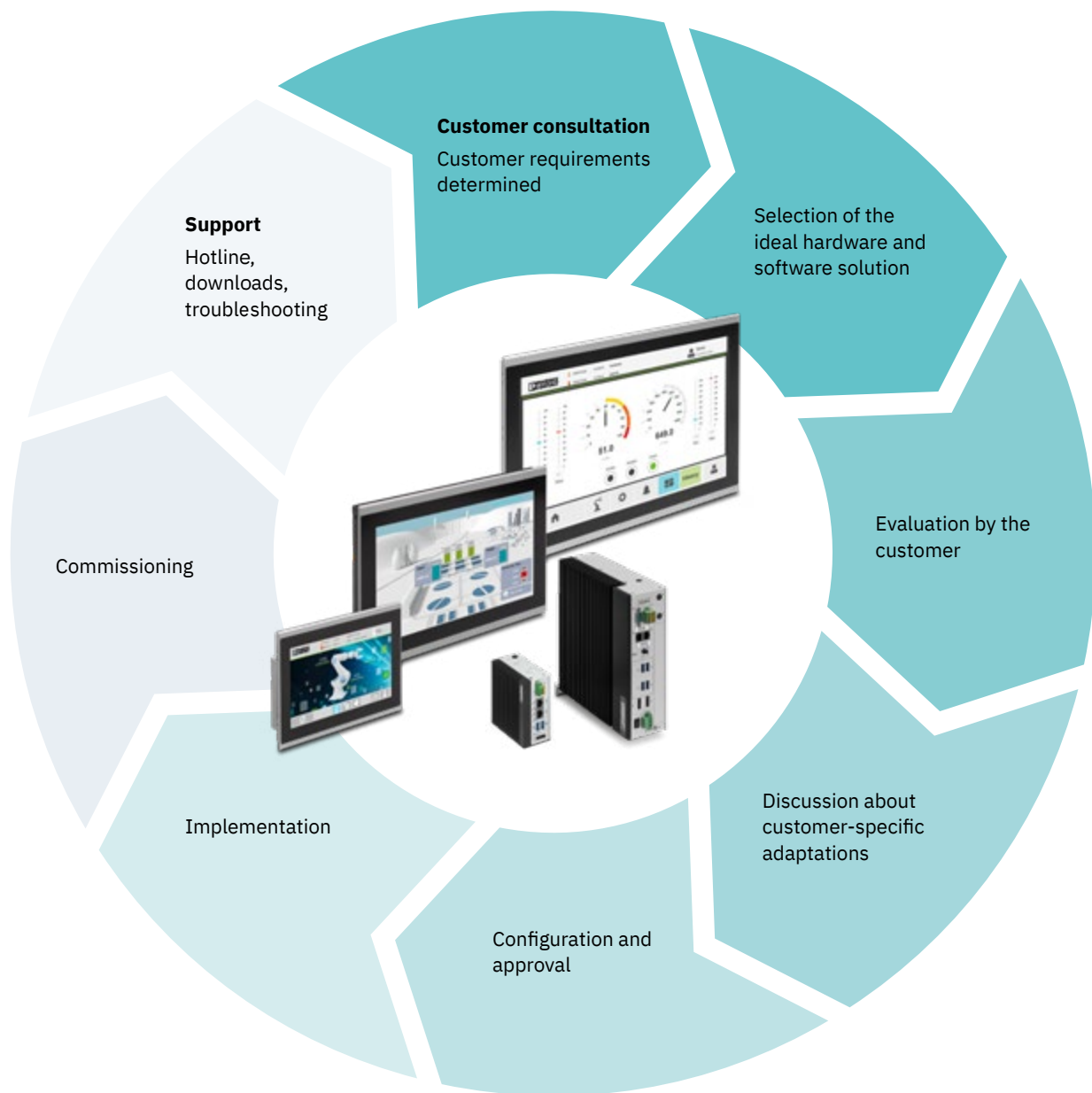
Interact with the 3D model of the product. To view the product lists, click the “View product list” button. Click on “View in my space” to project the model into your environment (AR experience).



Scan the QR code to get started

Everything from a single source

We can help you develop a better automation system. This starts with individually designed solutions and extends to development support. Services range from preloaded software images to clean-sheet designs based on your requirements.



HMI and industrial PCs

HMI panels – for applications in industry

HMI panels are the perfect interface to ensure ideal communication between user and machine. They enable users to operate the machine, observe the system states, and intervene in the process. Our industrial-grade touch panels provide cost-effective automation based on efficient input and monitoring.

Preconfigured control panels with preinstalled software and drivers for flexible connection to various control systems ensure particularly high-level user-friendliness. We provide Human-Machine Interface panels for Visu+ software and HTML5 applications.



Industrial PCs – IPCs for all types of industrial applications

Whether as a user interface or the central controller for the system, industrial computers are absolutely vital in industrial applications. They combine the computing power of modern processors with the robustness and reliability of industrial components.

Our industrial PC portfolio ranges from powerful box PCs (embedded PCs) and panel PCs to rack PCs and multi-touch monitors. They feature flexible mounting options for devices in the field, as well as for monitoring close to the machine.

Benefit from the advantages of a robust, configurable solution for the recording and processing, measurement, control, and visualization of your data and processes in almost all industrial applications.

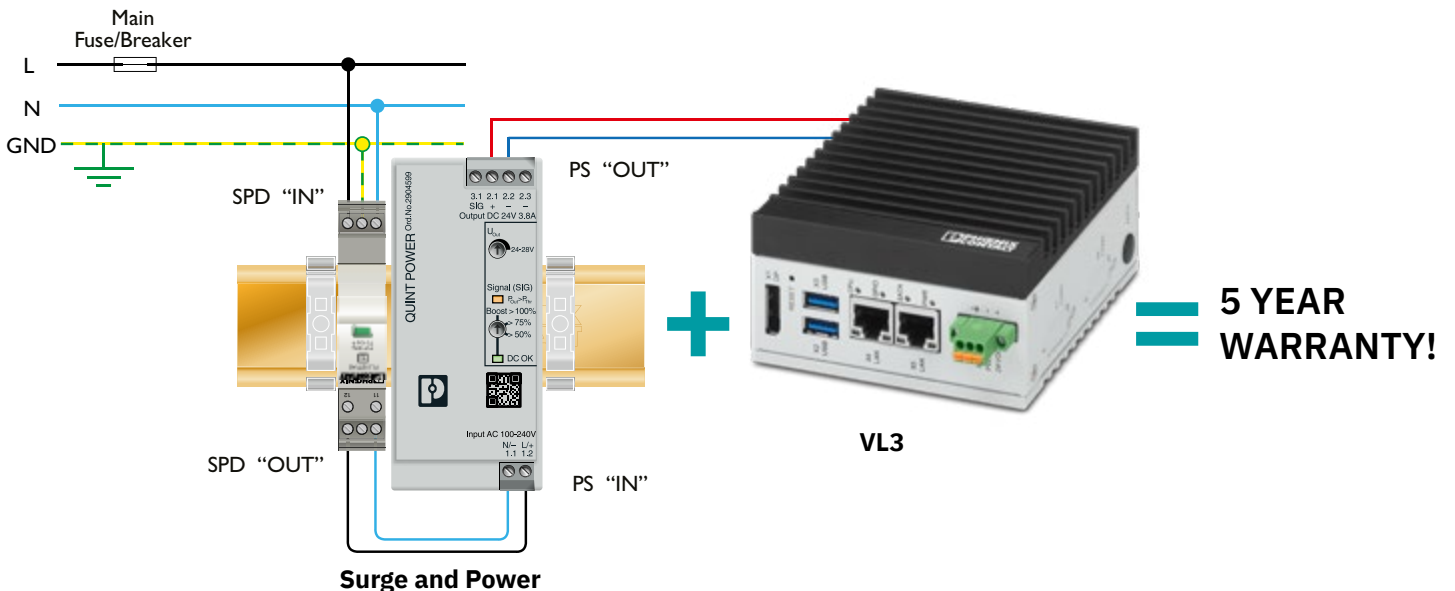
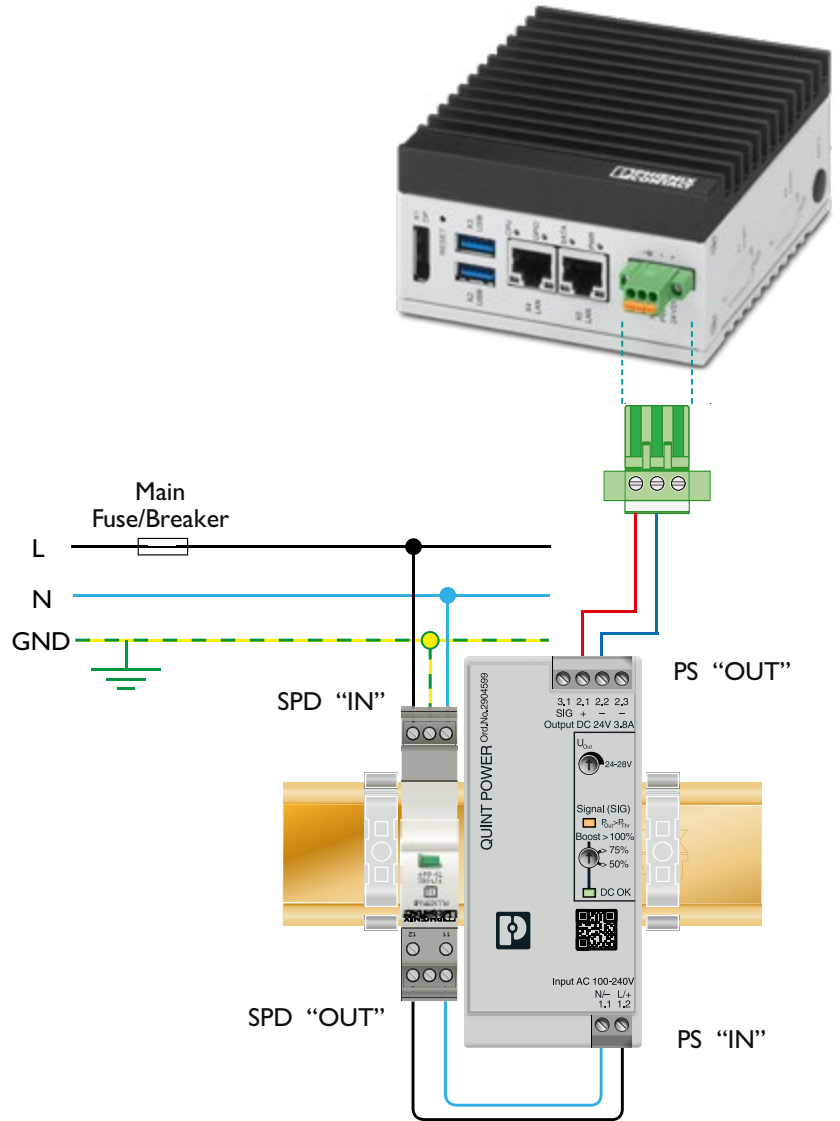


Warranty

Phoenix Contact industrial PCs (IPCs) and HMI operator panels (HMIs) are used in a wide variety of automation, process visualization, and control applications. Reducing susceptibility to surges is crucial for increasing uptime and extending the life expectancy of the HMI/IPC and its power supply. Phoenix Contact's surge suppression protects these devices from damaging surges, protecting your investment.

With properly installed surge protection devices (SPDs), any damage that occurs is contained within the SPD. The modular SPD design allows the end-of-life plug to be replaced without cutting off the power. Additionally, the SPD can be connected to a remote monitoring system to notify the operator that the module needs to be replaced.

Phoenix Contact will extend the existing comprehensive two-year warranty on all HMIs/IPCs to a five-year limited warranty when used with the appropriate Phoenix Contact power supply and surge protection solution.



HMI

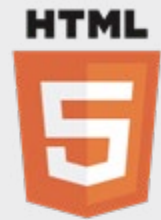
For applications in industry

Efficient automation requires the right visualization. Our web panels with open browsers for HTML5 applications simplify the operation and monitoring of your automation solution. Benefit from intuitive user guidance and a high level of efficiency. We have the right HMI to provide the ideal user interface for your application.

HMI with an open web browser

Flexible integration into your automation system with HTML5 web technology

> More information starting on page 12



Step 1: Visualization as the basis for selecting an HMI

The capabilities of the control system determine whether an HTML5 panel can be used for visualization.

- Does the PLC (or any other target device) provide an HTML5 web server?
- Does the visualization reside in the cloud?
- What are the HMI or SCADA capabilities of the targeted device?

Step 2: Assess the resource requirements based on the scope of the application

It is crucial to match each application with the right HMI. Device response and display refresh times can vary significantly with the number of graphics and their overall complexity. HMI

applications can range from simple pushbutton replacers to graphic-rich user interfaces utilizing advanced alarming, trending, or recipe-handling features.

Step 3: Select the right device

Based on their features (CPU capacity, display resolution, and memory capacity) as well as their suitability for different applications, the individual device families can be divided into three classes: Basic (BWP 2000), Standard (WP 6000), and Rugged (R-WP 6000).

Industrial PCs are in a separate class and can be set up as blind node (box) PCs with or without flat-panel monitors, and panel PCs for high-end and edge applications.

Select the right operating panel to meet your application needs.

		HMI for HTML5			Industrial PC	
		BWP 2000	WP 6000	RWP 6000	IPC	
Visualization	Web-based	●	●	●	●	
Connection to control systems	Phoenix Contact	AXC or RFC controller with PLCnext	●	●	●	●
		AXC or RFC controller with PC Worx	●	●	●	●
		Emalytics View and Automation, Niagara, Dglux		○	○	●
		PLC logic				
	Other	OPC UA				●
		Third-party manufacturer	●	●	●	●
		Multi-driver PLC communication			○	●
	CODESYS	○	●	●	●	
Remote Data Access (RDA)		○	●	○	●	
Touch technology/interface	Resistive touch (polyester)	●			●	
	PCAP touch		●	●	●	
Hardware	Metal housing		●	●	●	
	Plastic housing	●		●		
Environmental influences and approvals	Extended temperature range			●	●	
	Displays can be read in direct sunlight			●	●	
	UL (Ordinary/Hazardous Location)	●/●	●/–	●/●	●/●	
	Value / Performance	●/○	○/●	●/○	●/●	

● Best option
○ Limited / alternative option

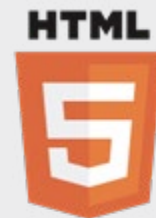
+ Planned / future implementation
– Not available

HMI's with an open web browser

The operator panels with integrated web browsers display all web-based visualizations that support the current HTML5 standard. Among other HTML5 visualization tools, you will also find an optimally coordinated system with PLCnext Engineer HMI. Create your own custom web-based visualization very easily. No web skills are required, since the software offers numerous symbols and templates that can be easily extended to suit your needs. Our operator panels with open browsers allow you to display the web-based visualization of your system without any restrictions.



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Your advantages

- ✓ Open web standards ensure/guarantee compatibility with any web server
- ✓ No runtime license costs
- ✓ Independent visualization to program your JavaScript applications
- ✓ Time and location independence, with remote maintenance via smartphone or PC

Web panels – product overview

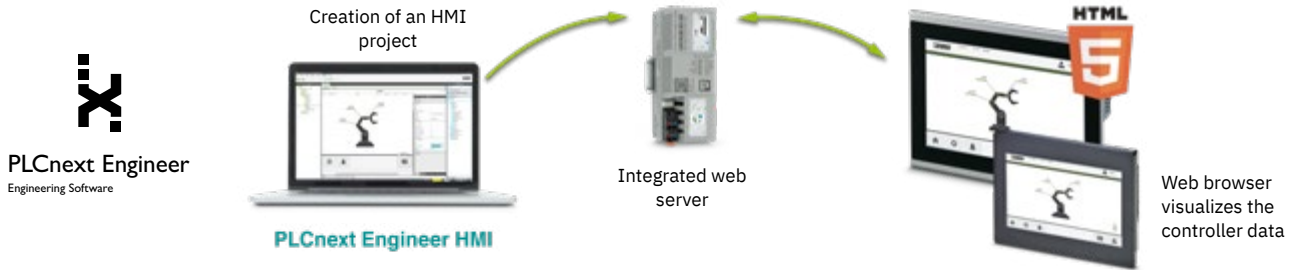
PLCnext Engineer



The PLCnext Engineer software is optimized for the creation of modern visualization solutions. With respect to the technology, the visualization integrated into PLCnext Engineer is based on open standards such as HTML5 and JavaScript. No web skills are required, since the software offers numerous symbols and templates that can be individually extended.

- Programming and visualization for the new generation of Phoenix Contact controllers
- End-to-end engineering: Configuration, programming, visualization, and diagnostics
- Comprehensive symbol libraries can be extended and reused as often as required

• Free download and licensed add-ins available at phoenixcontact.com
 Further information on controllers compatible with PLCnext Engineer available at:

 **Web code: #2310**



Web panels			
	Description	Item no.	Item description
Web panels with open browsers for simple HTML5 applications			
	Web panel with 10.92 cm / 4.3" TFT display (analog resistive), 480 x 272 pixels (WQVGA), 16.7 million colors, i.MX 6DualLite, 1 GHz, 1 x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Yocto/Linux®, and application software: QT browser	1060549	BWP 2043W
	Web panel with 17.8 cm / 7" TFT display (analog resistive), 800 x 480 pixels (WVGA), 16.7 million colors, i.MX 6DualLite, 1 GHz, 1 x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Yocto/Linux®, and application software: QT browser	1060632	BWP 2070W
	Web panel with 25.9 cm / 10.2" TFT display (analog resistive), 1024 x 600 pixels (WSVGA), 16.7 million colors, i.MX 6DualLite, 1 GHz, 1 x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Yocto/Linux®, and application software: Qt WebBrowser	1060630	BWP 2102W
Web panels with open browsers for HTML5 applications			
	Web panel with 17.8 cm / 7.0" TFT display (PCAP), 800 x 480 pixels (WVGA), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290800	WP 6070-WVPS
	Web panel with 25.9 cm / 10.1" TFT display (PCAP), 1280 x 800 pixels (WXGA), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290801	WP 6101-WXPS
	Web panel with 30.7 cm / 12.1" TFT display (PCAP), 1280 x 800 pixels (WXGA), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290802	WP 6121-WXPS
	Web panel with 39.6 cm / 15.6" TFT display (PCAP), 1920 x 1280 pixels (Full HD), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290803	WP 6156-WHPS
	Web panel with 46.9 cm / 18.5" TFT display (PCAP), 1920 x 1080 pixels (Full HD), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290807	WP 6185-WHPS
	Web panel with 54.6 cm / 21.5" TFT display (PCAP), 1920 x 1080 pixels (Full HD), 16.7 million colors, Arm® Cortex® A53, 1.6 GHz i.MX8M quad, 1 x COM (RS-232/422/485), 2 x USB 2.0, type A, 1 x USB 3.0, type C, 1 x Ethernet (10/100/1000 Mbps), application software: Qt WebBrowser	1290809	WP 6215-WHPS

Rugged web panels

The WP 6000 series rugged web panels are designed for use in demanding industrial environments and offer reliable operation even under extreme conditions. A display with UV and IR protection ensures good readability in direct sunlight. The extended temperature range of -30 to +65°C and the high impact strength and vibration resistance enable stable operation in harsh environments.



Your advantages

- ✓ Robust hardware for harsh environments with glass that is 3 mm thick, a larger heatsink, and a stronger housing
- ✓ Open and usable in any third-party system
- ✓ Can be operated with or without gloves
- ✓ Ideal for any HTML5- or browser-based visualization
- ✓ Scratch-proof PCAP touch technology ensures precise input and long service life


General technical data

- Extended temperature range (-30 to +65°C)
- High impact strength (40g) and vibration resistance (5g)
- Displays are readable in direct sunlight with UV and IR protection
- Responsive PCAP touch screen displays from 7 to 15.6"
- Integrated motion and ambient light sensor



The WP 6000 rugged web panels are designed for use in harsh outdoor conditions.

Web panels

	Description	Item no.	Item description
WP 6000 series rugged web panels			
	6th generation rugged web panel, 7.0", format (16:9) VGA, PCAP robust specification	1650118	WP 6070-WVPR
	6th generation rugged web panel, 10.0", format (16:9) XGA, PCAP robust specification	1650120	WP 6101-WXPR
	6th generation rugged web panel, 12.1", format (16:9) VGA, PCAP robust specification	1650121	WP 6121-WXPR
	6th generation rugged web panel, 15.6", format (16:9) HD, PCAP robust specification	1650122	WP 6156-WHPR

Industrial PCs

The right system for every application

As the interface between human and machine or as a central system controller, industrial PCs are an essential component in industrial applications. In addition to box PCs, the Phoenix Contact portfolio also includes powerful panel PCs as well as devices for special industrial requirements. Enjoy the benefits of a robust and configurable solution for collecting, processing, measuring, controlling, and visualizing your data.



Box PCs

- The right performance for every application with Intel® Atom™ through Intel® Core™ processors
- Passive cooling and no moving parts
- Safe hardware option, equipped with TPM 2.0
- Individually configurable with numerous extension options

➤ More information starting on page 20

Touch monitors

- Display sizes from 10.1 to 23.8" with a 16:9 format
- PCAP multi-touch functionality
- High shock resistance and electromagnetic compatibility
- Easy VESA 100 mounting

➤ More information starting on page 22

Panel PCs

- The right performance for every application with Intel® Atom™ through Intel® Core™ processors
- Display sizes ranging from 10 to 21.5" with a 16:9 format
- PCAP multi-touch functionality
- Passive cooling and no moving parts

➤ More information starting on page 24



Rackmount PCs

- Maximum system performance for large amounts of data
- Flexible extension with the 19" industry standard
- Strong performance for machine building and systems manufacturing

➤ More information starting on page 28

Programmable edge computers

- Connectivity from sensor to cloud
- Based on PLCnext Technology
- Integrated programming tools
- Bridge between IT and OT

➤ More information starting on page 30

Box PCs

Box PCs are designed to work in a wide variety of automation tasks, from simple data acquisition to high-speed control systems. Their rugged design, various mounting options, and scalable performance provide the right IPC solution for virtually any industry or application.



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VL3 BPC

Scalable solutions for data processing close to the machine

VL3 UPC

Compromising between size, performance, and connectivity is no longer necessary

Your advantages

- ✓ High system availability with the compact fanless design
- ✓ Secure hardware option with TPM 2.0
- ✓ Optimum performance with modern Intel® processors




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Box PCs – product overview

1

2

VL3 series box PCs					
Industrial box PC (BPC) with IP30 degree of protection and 11th generation Intel® processor					
	Item no.	1376797			
	Processor	Intel® Celeron® 6305E 1.8 GHz (dual-core)	Intel® Core™ i3-1115G4E 3.0 GHz (dual-core)	Intel® Core™ i5-1145G7E 2.6 GHz (quad-core)	Intel® Core™ i7-1185G7E 2.8 GHz (quad-core)
	Cooling	Passive			
	RAM (configurable)	Max. 16 GB DDR4	Max. 64 GB DDR4		
	Data storage system (configurable)	2 x m.2 SSD			
	RAID support (configurable)	0/1			
	Interfaces	2 x DisplayPort (DP++) 2 x (10/100/1000 Mbps), RJ45, Intel® i226 4 x USB 3.1 1 x COM (RS-232/422/485)			
	Optional interfaces	WLAN a, b, g, n 4 x COM (RS-232/422/485), BIOS configurable 4 x COM (RS-232/422/485), ISOLATED, BIOS configurable 1 x Gigabit Ethernet + 1 x COM (RS-232/422/485), 2 x USB, 2 x 10/100/1000 Mbps, RJ45, Intel® i210 / i225 4 x USB 3.1 1 x COM (RS-232/422/485), BIOS configurable			
	PCIe slots (configurable)	1 x PCIe 4 x slot			
	Power consumption ¹⁾	97 W	97 W	112 W	120 W
	Operating temperature	-20°C ... +50°C			

¹⁾Power consumption value represents maximum power consumption without a PCIe interface.
The actual system power consumption depends on the system load. See manual for details.

VL3 UPC series box PCs					
					
	VL3 UPC 1110	VL3 UPC 1320	VL3 UPC 2430	VL3 UPC 2430	VL3 UPC
Item no.	1433148	1433147	1433152	1433152	1459506
CPU	Intel® Atom® x6211E, 1.3 GHz (2 core)		Intel® Atom® x6413E, 1.5 GHz (4 core)		Configurable
RAM	2 GB LPDDR4	8 GB LPDDR4	16 GB LPDDR4	16 GB LPDDR4	Configurable
Data memory	30 GB NVMe SSD	60 GB NVMe SSD	120 GB NVMe SSD	240 GB NVMe SSD	Configurable
Interfaces	1 x DisplayPort (DP++) 2 x USB 3.1 2 x 10/100/1000, RJ45				
Optional interfaces	N/A				2 x RS-232/422/485 1 x WLAN (a, b, g, n) 2 x 10/100/1000, RJ45 + M.2 1 x 4G / LTE + M.2
Dimensions (W x H x D)	100 x 100 x 50 mm				100 x 100 x 50 mm
Dimension including expansion					100 x 100 x 80 mm
Power consumption	19.7 W				Configuration dependent
Operating temperature	-20... 60C				

Touch monitors

Phoenix Contact offers multi-touch monitors in a modern industrial design for industrial operating concepts where the processing unit and display unit are physically separated. The robust devices can be used directly on the machine. A choice of graphical interfaces allows for easy connection to any PC without the need for adapters or converters.



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Your advantages

- ✓ Same appearance and cutout dimensions as TP 6000/WP 6000 HMIs and VL3 panel PCs
- ✓ Improved connection options, including 2 x USB and optional VGA, DP, or HDMI signal
- ✓ Can be operated wearing gloves and suitable for humid ambient conditions

Touch monitors – product overview


General technical data

- Display sizes from 10.1 to 23.8"
- PCAP multi-touch functionality
- Resolution:
10.1", 12.1" (1280 x 800 pixels),
15.6", 18.5", 21.5" , 23.8"
(1920 x 1080 pixels)
- Interfaces: 1 x display port, 1 x HDMI,
1 x VGA, 2 x USB
- Degree of protection: IP66 (front)



Flat-screen touch monitors
10.1 to 23.8" for industry

Monitors with PCAP touch

	Description	Item no.	Item description
	LCD 10.1" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580690	VL3 FPM 101
	LCD 12.1" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580720	VL3 FPM 121
	LCD 15.6" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580719	VL3 FPM 156
	LCD 18.5" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580718	VL3 FPM 185
	LCD 21.5" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580715	VL3 FPM 215
	LCD 23.8" flat-screen monitor with IP65 degree of protection, with projective capacitive touch screen	NEW 1580713	VL3 FPM 238

Panel PCs

Panel PCs are at the forefront of any high-end control or visualization task. The VL3 series panel PCs provide a reliable user interface for various applications and industries that require touch screen operation and a robust design. Combined with the Visu+ software, you can design high-end, graphic-rich visualization systems.



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PXR

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Your advantages

- ✓ Passive cooling and no moving parts (convection amplifier for i7 model)
- ✓ Easy access to all essential components, including storage devices and RTC battery
- ✓ Glove-capable PCAP touch screens in full HD resolution
- ✓ Can be configured individually



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Overview of panel PCs



Panel PCs for front mounting

The VL3 PPCs are configurable panel PCs for front mounting. With a variety of display sizes, various CPU classes, and numerous other connectivity options, they provide the perfect user interface for machine or system operation.



IP65-protected stand-alone panel PCs

The BL2 PPC AIO65 is a family of configurable, free-standing IP65-protected industrial PCs. Choose from a variety of performance classes, display and mounting options, as well as matching expansion options, including the pushbutton box and signal light. The modular design of the BL2 PPC AIO65 offers an advanced level of solution flexibility – directly on the machine.




Robust stand-alone panel PCs with IP66 protection


The advanced design and quality of the VMT 9000 series is particularly suitable for machine and system operation directly in the field. Features such as additional front keys or the sunlight-readable display are already included as standard with the operator terminal family and enable reliable operation even in demanding ambient conditions.





Panel PCs – product overview


Panel PCs				
VL3 series panel PCs				
Industrial panel PC (PPC) with IP66 degree of protection and 11th generation Intel® processor				
	Item no.	1376798		
	Display size	39.6 cm / 15.6"	47 cm / 18.5"	54.6 cm / 21.5"
	Touch technology	10 pt. projected capacitive (PCAP), glove-capable, wet application suitable		
	Resolution W x H	1920 x 1080 pixels (Full HD)		
	Processor	Intel® Celeron® 6305E 1.8 GHz (dual-core); Intel® Core™ i3-1115G4E 3.0 GHz (dual-core); Intel® Core™ i5-1145G7E 2.6 GHz (quad-core); Intel® Core™ i7-1185G7E 2.8 GHz (quad-core)		
	Cooling	Passive (i7 model with convection booster)		
	RAM (configurable)	Up to 64 GB DDR4		
	Data storage system (configurable)	2 x m.2 SSD, RAID capable		
	Interfaces	2 x 10/100/1000 Mbps, RJ45, Intel® i210 / i225 4 x USB 3.1 1 x COM (RS-232/422/485), BIOS configurable 1 x DisplayPort (DP++)		
	System expansion options	WLAN a, b, g, n 4 x COM (RS-232/422/485), BIOS configurable 4 x COM (RS-232/422/485), ISOLATED, BIOS configurable 1 x Gigabit Ethernet + 1 x COM (RS-232/422/485), 2 x USB		
	Dimensions incl. front plate W x H x D	398 mm x 273 mm x 89 mm	465 mm x 310 mm x 89 mm	532 mm x 346 mm x 89 mm
	Mounting cutout W x H	388 mm x 263 mm	455 mm x 300 mm	522 mm x 336 mm
	Power consumption ¹⁾	70 W / 82 W / 84 W / 91 W	72 W / 80 W / 84 W / 91 W	72 W / 80 W / 91 W / 93 W

¹⁾Power consumption value represents maximum power consumption at 24 V DC without system expansion options. The actual system power consumption depends on the system load. See manual for details.

VL3 PPCS					
					
Designation	VL3 PPCS10 1320	VL3 PPCS10 2430	VL3 PPCS12 1320	VL3 PPCS12 2430	VL3 PPCS
Item no.	1494298	1494294	1494296	1494293	1644121
Display size (cm / in)	25.65 / 10.1"		30.73 / 12.1"		Configurable
Touch technology	Projected Capacitive Touch (PCAP)				
Intel® Atom® x6211E 1.3 GHz (2 core)	●		●		●
Intel® Atom® x6413E 1.5 GHz (4 core)		●		●	●
RAM	8 GB LPDDR4	16 GB LPDDR4	8 GB LPDDR4	16 GB LPDDR4	8 GB or 16 GB LPDDR4
Data memory	60 GB NVMe SSD	120 GB NVMe SSD	60 GB NVMe SSD	120 GB NVMe SSD	60 GB or 120 GB NVMe SSD
Interfaces	1 x DisplayPort (DP++) (1.4); 2 x USB 3.2 gen.1; 2 x Ethernet 10/100/1000 (i-226-IT); 1 x RS-232/422/485				
Optional interfaces	N/A				WLAN (a, b, g, n) 1 x M.2 B+M key 2 x Ethernet (i226-IT) 4G/LTE
Dimensions including front plate W x H x D (mm)	263 x 200 x 6.9		302 x 229 x 6.9		Configuration dependent
Mounting cutout W x H (mm)	252 x 189		292 x 219		Configuration dependent
Weight/weight including expansion	6.9 kg		8.0 kg		Configuration dependent

Panel PCs – product overview

BL2 series stand-alone panel PCs			
	Description	Item no.	Item description
Panel PC			
	Industrial PC with the choice between an Intel® Pentium® N4200 processor or an Intel® Celeron® 7305E processor, full IP65 degree of protection and a multi-touch capacitive full HD display. Designed for VESA, pole, or arm mounting	1138366	BL2 PPC AIO65 2000
	Industrial PC with the choice between an Intel® Core™ i5 7442EQ processor or Intel® Core™ i7-1265UE processor, full IP65 degree of protection and a multi-touch capacitive full HD display. Designed for VESA, pole, or arm mounting	1138367	BL2 PPC AIO65 7000
Pushbutton box			
	9-hole pushbutton box for use exclusively with BL2 AIO65 configurations with arm/pole mount option [A24]. Not compatible with [A09] VESA mount option	1160210	BL2 AIO65 9 PB BOX
	11-hole pushbutton box for use with BL2 AIO65 configurations with [A24] arm/pole mount option	1160209	BL2 AIO65 11 PB BOX

Robust stand-alone panel PCs with IP66 degree of protection and sunlight-readable displays			
	Description	Item no.	Item description
Rugged-panel PC			
	Configurable rugged-panel PC with sunlight-readable display (analog resistive or PCAP touch technology), enclosed housing with degree of protection IP66 (front/back) and extended temperature range. Configurable: display, data storage system, operating system, and more	1084510	VMT 9000



Rackmount PCs

For the data acquisition and processing of large amounts of sensor data, extensive SCADA visualization and image processing are available with the powerful 19" rack-mounted industrial PCs from Phoenix Contact. Offering advanced performance for demanding applications, the 19" rack form factor allows simple mounting in controlled industrial environments.



Your advantages

- ✔ Fits perfectly into 19" racks
- ✔ Available in size 2U
- ✔ Mass-storage devices are mechanically protected and locked
- ✔ Easy serviceability with hot-swappable mass-storage devices
- ✔ Easily serviceable air filters


Rackmount PCs – product overview

General technical data

- Ethernet interfaces: 2 x (10/100/1000 Mbps), RJ45
- Operating system (configuration option)
- Power supply: 110 to 230 V AC
- Operating temperature: 0°C to +50°C
- Storage temperature: 0°C to +70°C
- Relative humidity: 5% to 95%, non-condensing
- Housing: powder-coated sheet metal
- Degree of protection: IP20
- Approvals: UL/cUL



The rackmount PCs offer maximum flexibility and high system availability with various storage and extension options. This is ideal for demanding environments such as solar systems and wind turbine generators.

Rackmount PCs			
	Description	Item no.	Item description
Rack IPCs			
	19", 2U rackmount PC with Intel® Core™ i3-9100TE 2.20 GHz or i7-9700TE 1.80 GHz processor and up to 32 GB RAM. Mass-storage options for up to 8 TB. PCI and PCIe expansion slots for expansion purposes	2400063	BL RACKMOUNT 2U

Programmable edge computers

Process your data at the edge of your network and use modern cloud solutions to save resources. Data processing close to data sources reduces network latency and increases the response time and flexibility of your application. These controllers combine the robustness of industrial PCs with open PLCnext Technology, enabling intelligent IoT edge solutions.



Launch
Scan the QR code to
get started

PLCnext Technology
Designed by Phoenix Contact



Your advantages

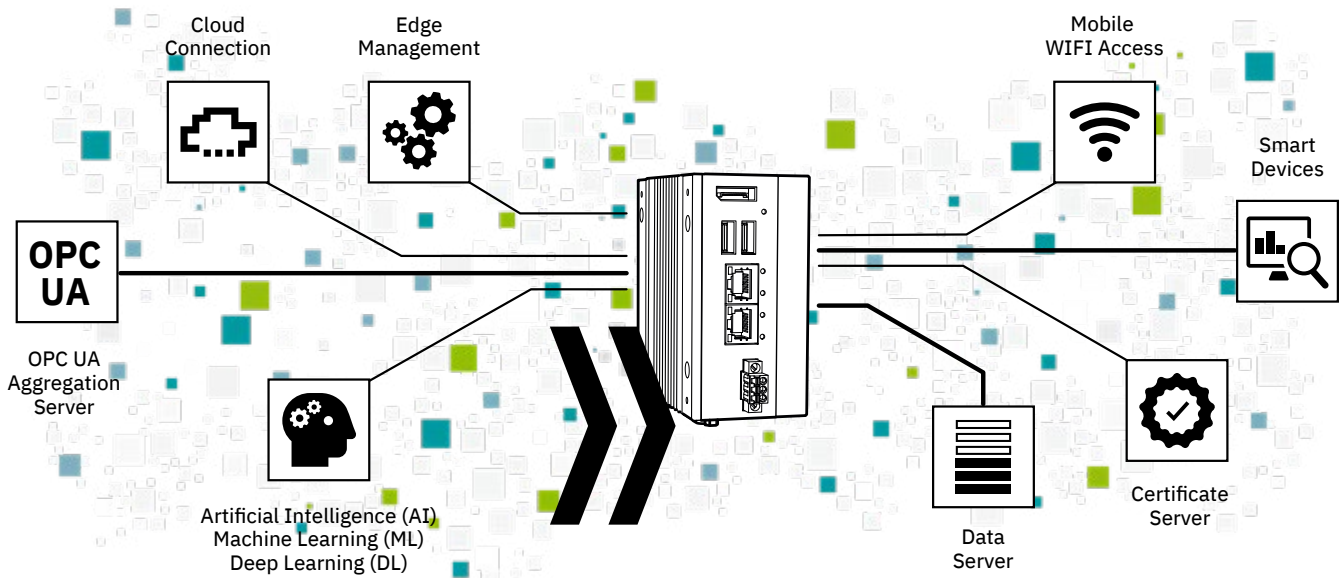
- ✓ Easily expandable Ubuntu Pro desktop operating system with 10 years of update support
- ✓ Real-time PROFINET controller with PLCnext Technology
- ✓ High-performance data acquisition and analysis with Intel® Atom® x6413E CPU and 16 GB RAM
- ✓ Container-based Virtual PLCnext Control for flexible and scalable solutions
- ✓ Easy data exchange between PLCnext Technology and Linux


PLCnext Technology: The basis for smart edge computing

With PLCnext Control for edge computing, you can process your field data directly where it is created. This reduces latency, takes the strain off central systems, and enables you to respond more quickly to process changes.

In addition to the full-fledged IEC 61131-3 controller, software for analyzing data can be easily and conveniently installed in the underlying Linux Ubuntu Pro Desktop. The open architecture allows the flexible integration of containerized applications or native Linux tools – without special hardware adjustments.

The preinstalled Virtual PLCnext Control enables the software-based implementation and scaling of control functions. This creates a future-proof solution that seamlessly connects the IT and OT worlds and also supports sophisticated applications such as AI-based analysis or predictive maintenance.



Industrial edge computer			
	Description	Item no.	Item description
	Edge device with Virtual PLCnext Control as the central data collection and evaluation unit, Intel® Atom® x6413E, 16 GB RAM, and 240 GB data storage system	1760157	VL3 UPC 2440 EDGE

Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

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