



Industrial PCs

An overview of the Valueline, Basicline, Embeddedline, and Designline Industrial PCs

Industrial PC selection guide

Selecting the proper IPC requires a thorough understanding of the application in which the IPC is being used. This selection guide was created to assist in finding the right Phoenix Contact IPC product for the application.

1

Determine form-factor requirement

- **BPC** – Also known as a box PC, this is an IPC without a display
- **FPM** – Also known as a flat-panel monitor, this is a stand-alone display that connects remotely to the IPC
- **PPC** – Also known as a panel PC, this is an IPC with an integrated display that is designed to mount within a control cabinet

2

Determine I/O connectivity requirements

- USB: 2.0, 3.0
- LAN
- COM ports (RS-232, RS-422, RS-485)
- VGA: support for legacy display
- DVI: support for digital displays
- Display port: support for higher-resolutions displays and longer distances
- PCI expansion slots
- PCIe expansion slots

3

Determine mass storage requirement

- CF: lower cost, low performance, small-form factor, wide operating temperature, no moving parts
- CFast: high performance, small form factor, wide operating temperature, no moving parts
- SSD: high performance, wide operating temperature, no moving parts
- HDD: lower cost, rotating platter

4

Determine environmental requirements

- Operating temperature
- Shock and vibration
- Approvals
- Power consumption

5

Determine system performance requirements

- Processor type: single core, multicore, 32 bit, 64 bit
- Processor load: software requirements
- Processor performance: clock speed, PassMark® rating

For more information, please visit: www.phoenixcontact.com/IPC

Industrial PCs



Designline (DL)

The patented Designline family of industrial PCs redefines the traditional panel PC. This modern, functional design features IP65 protection from every angle, multi-touch display capability, and easy installation.

- High reliability
- Fully integrated IP65 protection
- Robust design
- Multi-touch
- Complete fanless design
- Extended temperature ranges
- Easy access to components
- Space-saving design
- VESA 100 mounting
- No control cabinet required
- Wide screens available

Valueline (VL)

The Valueline family of IPCs currently serves a wide variety of critical applications because of its reliability. Every Valueline Industrial PC is designed for maximum uptime and performance in demanding environments, while still maintaining ease of use.

- High reliability
- IP65 front panel
- Robust design
- Advanced approvals
- Single-touch display
- Fanless configurations
- Extended temperature ranges
- Easy access to components via service door
- Wide screens available

Basicline (BL)

The Basicline family of industrial box and panel PCs offers a broad range of price and performance. The ability to customize the mass storage size and type, RAM and operating system, and display size allows you to create a PC to better fit the application.

- High reliability
- IP65 front panel
- Robust design
- Low price
- Basic approvals
- Fanless configurations
- Single-touch display

Embeddedline (EL)

The Embeddedline family offers capacitive multi-touch widescreen displays. With a slim design and no rotating parts for operation, it can endure industrial environments with ease.

- High reliability
- IP65 front panel
- Robust design
- Multi-touch
- Complete fanless design
- Slim form factor
- Wide screen

PassMark® Overall Performance Rating



Industrial PC technical data

Industrial PC technical data		Display size (inches)	Display type	Mounting	Processor	Storage	RAM
DL	 DL PPC18.5M 7000 2400015 DL PPC21.5M 7000 2400016	18.5, 21.5	Projective capacitive multi-touch	VESA 100	Intel® Core™ i7-4650u 1.70 GHz	SSD HDD	4 GB 8 GB 12 GB
	 DL PPC15M 7000 2400017	15	Projective capacitive multi-touch	VESA 100	Intel® Core™ i7-4650u 1.70 GHz	SSD HDD	4 GB 8 GB 12 GB
	 DL PPC15M 1000 2701666	15	Projective capacitive multi-touch	VESA 100	Intel® Atom™ E680T 1.6 GHz	SSD HDD	2 GB
	 DL PPC15 1000 2701665	15	Resistive single touch	VESA 100	Intel® Atom™ E680T 1.6 GHz	SSD HDD	2 GB
VL	 VL PPC 3000 2400184	12, 15, 17, 18.5, 19, 21.5, 24	Resistive single touch	Panel	Intel® Core™ i3-4010U 1.70 GHz	SSD HDD CFast®	4 GB 8 GB 16 GB
	 VL BPC 3000 2400183	None	None	Wall Bookshelf	Intel® Core™ i3-4010U 1.70 GHz	SSD HDD CFast®	4 GB 8 GB 16 GB
	 VL IPC P7000 2701127	12, 15, 17, 19, 24	Resistive single touch	Panel Wall Bookshelf	Intel® Core™ i7-660UE 1.33 GHz Intel® Core™ i7-610E 2.53 GHz	SSD HDD Compact-Flash®	2 GB 4 GB 8 GB
	 VL IPC 2913108	12, 15, 17, 18.5, 19, 21.5, 24	Resistive single touch	Panel Wall Bookshelf	Intel® Atom™ N270 1.6 GHz Intel® Celeron® M ULV 423 1.01 GHz Intel® Core™2 Duo L7400 1.5 GHz	SSD HDD Compact-Flash®	1 GB 2 GB 3 GB
	 VL BPC 1000 2701291	None	None	Wall DIN rail Bookshelf	Intel® Atom™ N455 1.66 GHz	Compact-Flash®	2 GB
BL	 BL PPC 7000 2701398	15, 17	Resistive single touch	Panel	Intel® Core™ i7-3555LE 3.20 GHz	SSD HDD Compact-Flash®	4 GB 8 GB 16 GB
	 BL PPC 3000 2701397	15, 17	Resistive single touch	Panel	Intel® Celeron® 1020E 2.2 GHz	SSD HDD Compact-Flash®	4 GB 8 GB 16 GB
	 BL PPC 1000 2701401	12, 15, 17	Resistive single touch	Panel	Intel® Atom™ N455 1.66 GHz	SSD HDD Compact-Flash®	2 GB
	 BL BPC 7000 2400083	None	None	Wall	Intel® Core™ i7-3555LE 3.20 GHz	SSD HDD Compact-Flash®	4 GB 8 GB 16 GB
	 BL BPC 3000 2400082	None	None	Wall	Intel® Celeron® 1020E 2.2 GHz	SSD HDD Compact-Flash®	4 GB 8 GB 16 GB
	 BL BPC 2000 2701712	None	None	Wall DIN rail Bookshelf	Intel® Celeron® N2930 2.16 GHz	SSD HDD CFast®	2 GB 4 GB 8 GB
EL	 EL2 PPC7 1000 2400538 EL2 PPC9 1000 2400539 EL2 PPC12.1 1000 2400540 EL2 PPC15.6 1000 2400541 EL2 PPC18.5 1000 2400541	7, 9, 12, 15.6, 18.5	Projective capacitive multi-touch	Panel	Intel® Atom™ E3845 1.91 GHz	Flash SSD	1 GB 2 GB 4 GB

Industrial PC technical data

Industrial PC technical data		Operating systems	IP rating	PCI expansion option	Cooling	Operating temp.	LAN ports	COM ports	USB ports
DL		Windows 7	Fully integrated IP65	None	Passive	-20 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	1x USB 3.0 4x USB 2.0
		Windows 7	Fully integrated IP65	None	Passive	-20 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	1x USB 3.0 4x USB 2.0
		Windows 7	Fully integrated IP65	None	Passive	-20 to 55°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	5 x USB 2.0
		Windows 7	Fully integrated IP65	None	Passive	-20 to 55°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	5 x USB 2.0
VL		Windows 8.1 Windows 7	IP65 front IP20 back	2x PCI	Passive	-20 to 50°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	1x USB 3.0 3x USB 2.0
		Windows 8.1 Windows 7	IP20	2x PCI	Passive	-20 to 50°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	1x USB 3.0 3x USB 2.0
		Windows 7	IP65 front IP20 back	None	Active	0 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	4x USB 2.0
		Windows 7	IP65 front IP20 back	2x PCI	Passive	-20 to 55°C	2x 10/100/1000 Mbps	1x (RS-232/422/485)	4x USB 2.0
		Windows 7	IP20	None	Passive	0 to 50°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
BL		Windows 7	IP65 front IP20 back	mPCIe	Active	0 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
		Windows 7	IP65 front IP20 back	mPCIe	Active	0 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
		XP Pro SP3, Windows 7	IP65 front IP20 back	None	Passive	0 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
		Windows 7	IP20	mPCIe	Active	0 to 45°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
		Windows 7	IP20	mPCIe	Active	0 to 50°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	4x USB 2.0
		Windows 7	IP20	None	Passive	-20 to 50°C	2x 10/100/1000 Mbps	1x (RS-232/422/485) 2x RS-232	1x USB 3.0 3x USB 2.0
EL		Windows 7	IP65 front IP20 back	None	Passive	0 to 45°C	2x 10/100/1000 Mbps	1x RS-232 COM 1x RS-485 COM	4x USB 2.0



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USA

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