

Panel PC - VL2 PPC 7000 - 2400346

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IP66-rated Valueline® industrial panel PC (PPC) with fanless design and Intel® Core™ i5-4300U processor with up to 16 GB of RAM. Mass storage options include HDD and SSD. A single optional PCI or PCIe slot is available.

Your advantages

- ✓ Configurable as a panel PC (PPC)
- ✓ Fanless design for industrial applications
- ✓ Powerful and energy-efficient Intel® Core™ i5 processor
- ✓ Panel PC (PPC): IP66 rating in front panel and IP30 rating in back
- ✓ Easily removable rotating or solid-state hard drives in a variety of sizes



Key Commercial Data

Packing unit	1 pc
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Configuration

Display	15,6" LCD PTOUCH [D28]
Mounting	Panel Mounting [A20]
Processor	i5-4300U 1.9 GHz [I37]

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Outer dimensions: width, height, depth	(dependent on configuration)
Installation dimensions: width, height, depth	394.4 mm x 263.2 mm (Panel cutout for 15.6-in. display)
	455 mm x 303.2 mm (Panel cutout for 18.5-in. display)
	522 mm x 344 mm (Panel cutout for 21.5-in. display)

Display

Display type	39.6 cm/15.6" TFT
	47.0 cm / 18.5" TFT

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Technical data

Display

	54.6 cm/21.5" TFT
Screen resolution	1366 x 768 Pixel(s) (WXGA), 15.6" TFT; 18.5" TFT
	1920 x 1080 Pixel(s) (Full HD)
Touch technology	projective-capacitive, ten-touch control
Brightness	300 cd/m ² , typical (adjustable)
Backlighting	LED
Display backlight MTBF	> 50000 h (Dependent on configuration)
Colors	16.7 million colors

Computer data

Processor	Intel® Core™ i5-4300U 1.9 GHz/2.9 GHz
Cooling	passive
Operating system	without operating system
	Windows® 7 Professional SP1 (64-Bit), German
	Windows® 7 Professional SP1 (64-bit), English
	Windows® 7 Ultimate SP1 (64 bit), Multi-language
	Windows® 7 Ultimate SP1 (32-bit), Multi-language
	Windows® 7 Professional SP1 (32-bit), English
	Windows® 7 Professional SP1 (32-bit), German
	Windows® Embedded Standard 7 SP1 (32-bit), Multi-language
	Windows® Embedded Standard 7 SP1 (64-bit), Multi-language
	Windows® 10 IoT Enterprise LTSC 2015 (32-bit), Multi-language
	Windows® 10 IoT Enterprise LTSC 2015 (64-bit), Multi-language
RAM	4 GB DDR3 SODIMM
	8 GB DDR3 SODIMM
	16 GB DDR3 SODIMM
Mass storage	without mass storage
	SSD (SLC), 4 GB
	SSD (SLC), 8 GB
	SSD (SLC), 16 GB
	SSD (SLC), 32 GB
	2.5" HDD SATA, 320 GB
	2.5" SSD (MLC), 240 GB
	2.5" SSD (MLC), 480 GB
Raid system	without RAID system
	0, 1
Network	2x Ethernet (10/100/1000 Mbps), RJ45
Interfaces	1x COM (RS-232/422/485)
	2x USB 2.0
	2x USB 3.0

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Technical data

Computer data

Monitor output	2x DisplayPort
Optional interfaces	Without optional interface
	2x COM (RS-232), 1x COM (RS-232/422/485)
	2x Ethernet, 1x audio out (3.5 mm), 1x audio in (3.5 mm)
PCI option 1	without slot
	PCI
	PCI x4
Slots	PCI/PCIe optional
Graphics card	Intel® HD Graphics 4400
Realtime clock	Yes (battery-backed)
Service life of battery	5 years (typical)

General

Mounting type	Front installation
Weight	12.6 kg

Ambient conditions

Degree of protection	IP66 (front), IP30 (back)
Ambient temperature (operation)	0 °C ... 45 °C (with HDD)
	-10 °C ... 60 °C (with SSD)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	DIN EN 60068-2-6
Shock	15g, 11 ms in accordance with IEC 60068-2-27

Device supply

Power supply unit	24 V DC ±20 %
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Standards and Regulations

Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	19200103
eCl@ss 4.0	27250300

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Classifications

eCl@ss

eCl@ss 4.1	27250300
eCl@ss 5.0	27330200
eCl@ss 5.1	27330200
eCl@ss 6.0	27242300
eCl@ss 7.0	27242301
eCl@ss 8.0	27242301
eCl@ss 9.0	19200103

ETIM

ETIM 4.0	EC001414
ETIM 5.0	EC001414
ETIM 6.0	EC001414
ETIM 7.0	EC001414

UNSPSC

UNSPSC 13.2	43211509
UNSPSC 18.0	43211509
UNSPSC 19.0	43211509
UNSPSC 20.0	43211509
UNSPSC 21.0	43211509

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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Approvals

EAC-RoHS		RU*- DE*HB.B.00386/20
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EAC		RU C- DE.A*08.B01708
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Accessories

Accessories

Adapter cable

Adapter - DP TO VGA ADPTR - 2400173

DisplayPort to VGA video adapter



Adapter - DP TO DVI ADPTR - 2400174

DisplayPort to DVI-i video adapter



Buffer module

Buffer module - PC-PWR-FLTR-2 - 2402941



The PC-PWR-FLTR-2 buffers incoming power until operating voltage is reached. For use with 24 V DC power sources with ascend times over 100 ms 7 A max.

Data cable preassembled

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Accessories

USB cable - VS-04-C-SDA/SDB/1,8 - 1405578



USB cable, with USB connectors at both ends, assembled connector type: A on B, length:1.8 m

Data front plate

Data interface - SI-SES-U1A/0,6 - 1404514



Service socket with USB (socket/plug), type A with 0.6 m cable

Data plug

Panel mounting frame set - CUC-V06-F1PGY-UBA/UBBB - 1411904



USB socket insert, 4-pos., USB socket type A to USB socket type B, socket type A to panel mounting frame side, for the Freenet system in the panel mounting frame, IP20 terminal outlet, 19" patch panel, and service interface

Mounting material

Removable hard drive tray - VL2 SATA TRAY - EMPTY - 2403291

Mass storage tray for HDD/SSD installation in a Phoenix Contact IPC. Tray style D is compatible with VL2...PC...

Protective cover

Protective covers - VS-08-SD-F - 1652606



Protective cover, IP67, flat design, to cover the contact insert in the panel mounting frame, color: gray

Storage medium

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Accessories

Memory - VL2 4 GB SLC SSD SATA KIT - 2400335



4 GB, 2.5" SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 8 GB SLC SSD SATA KIT - 2400336



8 GB, 2.5" SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 16 GB SLC SSD SATA KIT - 2400337



16 GB, 2.5-inch SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 32 GB SLC SSD SATA KIT - 2400338



32 GB, 2.5-inch SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 320 GB HDD SATA KIT - 2400341



320 GB, 2.5-inch SATA HDD kit with tray for VL2... industrial PPC and BPC products

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Accessories

Memory - VL2 480 GB SSD KIT - 2403834



480 GB, 2.5-inch SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 150 GB SSD SATA KIT - 1054580



150 GB, 2.5" SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 240 GB SSD KIT - 2403833



240 GB, 2.5-inch SATA SSD kit with tray for VL2... industrial PPC and BPC products

Memory - VL2 500 GB HDD SATA KIT - 1054264



500 GB, 2.5" SATA HDD kit with tray

Memory - VL2 500 GB HDD SATA KIT - 1054264



500 GB, 2.5" SATA HDD kit with tray

USB adapter

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Accessories

Software package - WES2009 / WES7 RECOVERY USB - 2400303



Operating system recovery kit for Windows® Embedded 2009 and Windows Embedded 7 operating systems. Kit includes a USB drive.

Software package - WIN7 TO WIN10 2016 KIT - VALUE - 1096119



Kit for upgrading specific Windows® 7 operating system to Windows 10 2016 IoT LTSC (Value) operating system. Kit includes a USB drive and Microsoft® Certificate of Authenticity (CoA) sticker.
Supported IPC platforms for the Windows 10 IoT LTSC 2016 Value license include: BL BPC/PPC 3000, VL BPC/PPC 3000, VL2 BPC/PPC 3000/7000, and BL RM... with an i3-4330TE 2.4 GHz processor (I40 configuration code).

Connecting cable - VL 2.0M DP CABLE - 2404774



DisplayPort (DP) cable (2 m) for use with industrial computers

Accessories - VL2 THERMAL PAD: 9MM 2.5" SATA - 2403290

Replacement thermal heat transfer pad for 9.0 mm to 9.4 mm drives on VL2... 2000/3000/7000

Accessories - VL2 THERMAL PAD: 7MM 2.5" SATA - 2403289

Replacement thermal heat transfer pad for 6.5 mm to 7.0 mm drives on VL2... 2000/3000/7000

Mounting flange - IPC MOUNTING BLOCK STYLE B - 2403288



IPC mounting block style B. Compatible with VL2 PPC 2000/3000/7000/9000 and BL PPC 1000/3000/7000/9000 mounting

Spare parts

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Accessories

Printed-circuit board connector - MSTB 2,5/ 3-STF-5,08 - 1777992



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 3, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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