BL PPC12 1000 - Panel PC

2701336

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IP65-rated, fanless, 12-inch industrial panel PC (PPC) including resistive touch screen with LED backlight. Energy-efficient Intel$^®$ Atom™ processor with 2 GB RAM. Ready for installation of mass storage device.

Product description

The Basicline PPC12 1000 is a 12-inch panel PC with a vibrant LED backlit display. The Intel$^®$ Atom™ 1.66 GHz N455 processor offers a seamless balance of processing power and energy efficiency. A fanless design and rich I/O capability make the BL PPC 1000 an industrial panel PC that can be used in a wide variety of applications. The three built-in COM ports enable connection to legacy RS-232 devices. One COM port can also be configured for RS-422 or RS-485 protocols.

Your advantages

• Fanless design

• 3 COM ports

• Embedded operating system support only

• LCD display with resistive touch screen

• IP65 degree of protection (front) IP20 rating (back)

• Energy-efficient Intel® ATOM™ processors

Commercial data

Item number	2701336
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR12
Product key	DRBABB
Catalog page	Page 124 (C-8-2015)
GTIN	4046356773102
Weight per piece (including packing)	4,318 g
Weight per piece (excluding packing)	4,318 g
Customs tariff number	84714100
Country of origin	TW

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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Panel PC

Computer data

Processor	Intel® Atom™ N455 1.66 GHz
Operating system	without operating system
Cooling	passive
RAM	2 GB DDR3 SODIMM
Data storage system	without data storage
Slots	without slots
Optical drive	without drive

Display

Display type	30.7 cm/12.1" TFT
Screen resolution	800 x 600 Pixel(s) (SVGA)
Touch technology	analog resistive (polyester)
Display lighting type	LED
Brightness	350 cd/m², typical (adjustable)
MTBF	> 50000 h
Color spectrum	16.2 million colors

Electrical properties

Service life of battery	5 years (typical)

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 28.8 V DC
Power supply unit	24 V DC ±20 %

Real-time clock

Realtime clock	Yes (battery-backed)

Supply

Power consumption	typ. 12.5 W

Connection data

Connection method	COMBICON
Conductor cross section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross section, flexible	0.2 mm² ... 2.5 mm²

Conductor cross section AWG	24 ... 12

Interfaces

Interfaces	4x USB 2.0
	1x COM (RS-232/422/485)
	2x COM (RS-232)
Network	2x Ethernet (10/100/1000 Mbps), RJ45
LAN chipset	Realtek® 8111D PCI-E
Bus system	without

Dimensions

Width	365 mm
Height	282 mm
Depth	55 mm

External dimensions

Width / Height / Depth	365 mm / 282 mm / 55 mm

Installation dimensions

Width / Height / Installation depth	334 mm / 253 mm / (Installation cutout)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (front), IP20 (back)
Ambient temperature (operation)	0 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	DIN EN 60068-2-6

Mounting

Mounting type	Panel cutout

Classifications

ECLASS

ECLASS-11.0	19200103

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

VL 1 GB CF - Memory card

2913155

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CompactFlash® card, pluggable, 1 GB

VL 2 GB CF - Memory card

2913156

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CompactFlash® card, pluggable, 2 GB

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VL 4 GB CF - Memory card

2913157

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CompactFlash® card, pluggable, 4 GB

VL 8 GB CF - Memory

2913158

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CompactFlash® card, pluggable, 8 GB

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VL PPC12 19" RACKMOUNT PLATE - Mounting panel

2701716

https://www.phoenixcontact.com/us/products/2701716
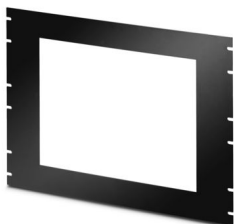
Allows 12" Basicline and Valueline PPC and 12" FPM products to be fitted into a 19" rack-mount cabinet using standard PPC mounting procedures.

16GB CF - Memory card

2701668

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CompactFlash® card, can be plugged in, 16 Gbyte

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32GB CF - Memory card

2701669

https://www.phoenixcontact.com/us/products/2701669

CompactFlash® card, can be plugged in, 32 Gbyte

BL PPC 1000 16 GB SSD KIT - Memory

2400073

https://www.phoenixcontact.com/us/products/2400073

16 GB, 2.5" SATA solid-state drive kit for Basicline PPC 1000. Includes tray.

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BL PPC 1000 32 GB SSD KIT - Memory

2400074

https://www.phoenixcontact.com/us/products/2400074

32 GB, 2.5" SATA solid-state drive kit for Basicline PPC 1000. Includes tray.

BL PPC 1000 320 GB HDD KIT - Memory

2400078

https://www.phoenixcontact.com/us/products/2400078

320 GB, 2.5" SATA hard-disc drive kit for Basicline PPC 1000. Includes tray.

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PC-PWR-FLTR-2 - Buffer module

2402941

https://www.phoenixcontact.com/us/products/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.

CUC-V06-F1PGY-UBA/UBBB - Panel mounting frames

1411904

https://www.phoenixcontact.com/us/products/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

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

1405578

https://www.phoenixcontact.com/us/products/1405578

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

VS-08-SD-F - Protective cover

1652606

https://www.phoenixcontact.com/us/products/1652606

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

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TOUCH PEN - Touch pen
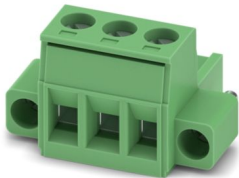
2701379

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Touch pen for analog-resistive HMIs, silver coated. Delivery includes self-adhesive pen holder.

MSTB 2,5/ 3-STF - PCB connector

1786844

https://www.phoenixcontact.com/us/products/1786844

PCB connector, nominal cross section: 2.5 mm^2, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTB 2,5/..-STF, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com