Blue Line IPC-4700 PCIe/PCI

BLUE LINE
IT for Demanding Environments

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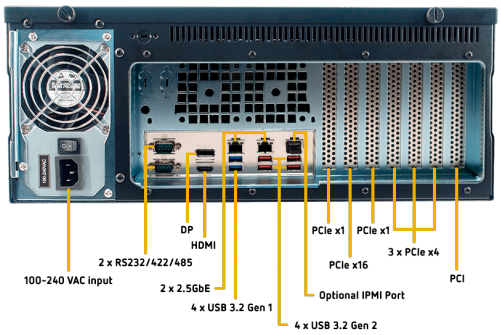

Highlights

Blue Line IPC-4700 PCIe/PCI is a robust embedded 4U system specifically engineered for demanding industrial environments. It provides support for full-length and full-height PCI and PCIe GPU, FPGA, and I/O cards, making it a versatile choice for various applications.
This model features a highly flexible and configurable design, powered by the Intel 14th Generation Core processor series. It is an ideal solution for sectors such as industrial equipment manufacturing, machine vision, energy, IoT Edge, and AI/GPU systems, ensuring optimal performance and reliability in critical operations.

Reduce cost and time spending with our global partner model based on your specific requirements. Let Blue Line take responsibility for delivery on time. Blue Line's ultimate goal is to help our customers get peace of mind by handling all relevant details such as securing the right configuration, software setup, mounting, packaging, labeling etc. Ask for references from your industry.

- Intel 12th / 13th / 14th Gen. core CPU
- 1 x PCI, 2 x PCIe x1, 3 x PCIe x4, 1 x PCIe x16
- Supports full-length and full-height card
- 2 x COM, 6 x USB, 2 x 2.5GbE and more options
- Supports high performance processor
- Short depth chassis (510mm)

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Blue Line IPC-4700 PCIe/PCI

• Build-to-order configured to your requirements

Specifications

Model Type

Rack PC

Form Factor

4U

Construction

Heavy duty cold rolled steel in black color

Cooling

One 120 x 120 x 38mm 2-Pin 2600 RPM system front fan
Easy front acces to dustfilter (Washable)
Option for dual 120 x 120 x 25mm 4-Pin PWM 2400 RPM, low noise fan
Option for dual 120 x 120 x 38mm 4-Pin PWM (max speed 4000 RPM) High performence fan
Option for dual 80 x 80 x 25mm rear fan

Environment

Operating temperature	0°C to 60°C
Option	Option for wide range temperature
Storage Temperature	-30°C to 70°C
Humidity	5% to 95%, non-condensing

Certification

CE

Processor

Intel Core 13th /14th gen. i3 / i5 / i7 / i9 (Up to 125W TDP)

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Intel Pentium Gold Series

Intel Celeron G Series

Chipset

Intel Q670/670E

Intel UHD graphics engine

Intel PTT (TPM 2.0 security function)

AMI UEFI BIOS

Watchdog Timer Software Programmable supports 1 to 255 sec. System reset

RAM

Up to 128GB, dual-channel DDR4-3200MHz SDRAM unbuffered, in four 288pin slot

Storage

3 x 5.25" / 1 x 3.5" drive bays

(Option for internal 2.5" / 3.5" drive)

Front Input / Output

Dual USB 2.0 Type-A

Option for Dual USB 3.2 Type-A via internal header

Power switch for on/off momentary (pushbutton), system reset

Power status LED & HDD activity LED

Double front panel door with keylock & thumbscrew

Rear Input / Output

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External	4 x USB 3.2 gen2 Type-A, 2 x USB 3.2 gen1 Type-A
	2 x RS-232/422/485 (RS-485 support AFC)
	1 x Lan 1: Intel I226V 2.5GbE (CO-LAY I226LM support vPro) RJ45 Port
	1 x Lan 2: Intel I226V 2.5GbE (CO-LAY I226LM support vPro) RJ45 Port
	1 x RJ45 port for option IPMI (Add on IPMI 2.0 management module)
Internal	4 x RS-232 via header
	2 x USB 3.2 Gen1 via header, 4 x USB 2.0 via header
	4 x SATA 6G/s (Intel onborad RAID 0/1/5/10 supported)
	1 x 12-bit digital I/O (2x7 pin)
	1 x iDPM support eDP/ LVDS/ VGA module
Display	1 x DP 1.4a (up to 4096 x 2304 @60Hz)
	1 x HDMI 1.4 (up to 4096 x 2304 @30Hz)
	Option for 3rd external VGA or DP port via iDPM module

Expansion

1 x PCIe Gen4 x16 slot

3 x PCIe Gen4 x4 open-end slot

2 x PCIe Gen3 x1 slot

1 x PCI slot

1 x M.2 M key 2242/2280 (PCIe Gen3 x4)

1 x M.2 M key 2242/2280 (PCIe Gen3 x2)

1 x IPMI slot support Intelligent platform management (IPMI modul required)

Operating System

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Windows 8 / 10 / 11

Windows 10 IoT Enterprise / 11 IoT Enterprise

Linux

Power Supply

Industrial PSU 650W ATX 12V v2,3, 80mm double ball bearing FAN, full range AC input, 80 PLUS Gold

IEC 62368-1 compliant

ErP Lot 6 2013 compliant

EMI/EMC: CE Class B and FCC Class B, RCM

Safety: cTUVus , TUV, CB, CCC, BSMI, RCM (SAA)

Option for 350W, 750W, 850W & 1000W PSU

Option for hotswap redundant 500W, 700W, 900W, 80 PLUS Gold PSU w/Power cord locking device

Power Consumption

TBD

Dimension and Weight

19"	H 177 x W 483 x D 510mm
Package	H 350 x W 600 x D 685mm
Net weight	16 kg (standard configuration)
Gross weight	21 kg (standard configuration)

Mounting

Rack mount

Accessories Included

Rack mount kit

PCI/PCIe card hold down retention bar

Accessories Optional

Rack mount slide rail kit

7.1 channel HD audio kit with Realtek ALC888S (1 x Line in, 1 x Line out, 1 x Mic and 1 x Center/Sub)

iDPM module for VGA

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iDPM module for DP

iDPM module for LVDS

IPMI 2.0 Management module with 2620 BMC chip

IPMI 2.0 Management module with 2600 BMC chip w/ KVM support

Dedicated HW Raid controller

WIFI / BT Add on card

Ethernet Add on card (Copper or Fiber connector)

Video frame grabber Add on card

Power over Ethernet Add on card (2-port or 4-port)

1 x 2.5" rugged Hot-swap w/Thumbscrews and key lock in 3.5" bay

2 x 2.5" Trayless Hot-swap w/key lock in 3.5" bay

4 x 2.5" Trayless Hot-swap w/key lock in 5.25" bay

5 x 2.5" or 3.5" Hot-swap w/keylock in 3 x 5.25" bay (1 x 80mm Fan)

Warranty and After Sales Support

Standard 1 year (option for 3 years)

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