Blue Line Fanless FPC-7300



Model 1

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Model 1



Model 1



Model 2



Model 2

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Model 3



Model 3



Model 1

Highlights

Blue Line Fanless FPC-7300 is the ultimate industrial computer designed for optimal performance and versatility in any environment. With its compact DIN-RAIL solution and front I/O, this innovative device offers a seamless and efficient solution for 24/7 operation. Whether you need it for Machine Vision, Edge Computing, Machine Learning/Inference, Robotic Control, or Automation, the FPC-7300 is equipped to handle it all. Experience the power and convenience of this cutting-edge industrial PC, with a wide range of options and configurations to suit your specific needs.

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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.

• 13th/12th generation Intel Core i3 / i5 / i7 / i9 processor

• Supports DIN-RAIL and Wall mount

• Supports 2 x 2.5” drives w. RAID

• Option for PCIe x16, PCIe x4

• 4 x COM, 4 x USB, 2 x 2.5GbE

• Windows 10 / 11

• Wide temp -20°C to 60°C

• Wide range DC input (9 to 32V)

• Fanless operation

• Build-to-order configured to your requirements

Specifications

Model Type

Fanless PC

Option for internal and external fan solution depending on configuration

Form Factor

Compact with front I/O only

Construction

Aluminum heatsink and black steel chassis

Cooling

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Model 1	Fanless
Model 2	Fanless (add-on 75W~125W add on card require internal 40x40mm fan)
Model 3	Fanless (add-on 75W~125W add on card require internal 80x80mm fan)

Environment

Operating temperature	-30°C to +60°C ambient w/ air flow for i3 / i5 CPU (with wide temp MEM / SSD) Only +50°C ambient w/ air flow for i7 / i9 CPU (with wide temp MEM / SSD)
Storage temperature	-40°C to +85°C
Humidity	10% to 90% @40°C non-condensing
Vibration	IEC 60068-2-64 1G / 5 to 500Hz (random) / operation
Shock	IEC 60068-2-27 15G peak acceleration (11 msec. Duration) / operation

Certification

Meet CE/FCC Class A

Processor

Fanless	12/13th generation Intel Core i3 / i5 / i7 / i9 (up to 35W TDP)
External smart fan kit	12/13th generation Intel Core i3 / i5 / i7 / i9 (up to 65W TDP)

Chipset

Intel Q670E chipset

TPM 2.0

Watchdog Timer (256 steps)

RAM

Up to 64GB, 2 x 262-pin DDR5 SO-DIMM 4800 MHz SDRAM (32GB per slot)

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Storage

2 x 2.5" SATA SSD / HDD drive bays with easy access

Supports RAID 0/1

1 x M.2 M key 2242/2280, supports PCIe x4

Front Input / Output

4 x USB 3.2 generation 1 Type A

2 x 2.5GbE RJ45 port by Intel i226LM (LAN port 1 support Intel vPro)

4 x RS-232/422/485 DB9 port - COM1 to 4

1 x DP++ 1.4A

1 x HDMI 2.1

1 x Line-out, 1 x Mic-in 3.5mm Phone Jack connector

1 x 3-PIN DC power input via Terminal Block, 1 x power button with Grenn LED light

1 x M.2 SSD and 1 x 2.5" SSD Red LED indicators

6 x PreCut SMA holes for antennas

Option for I/O module (2 x GbE by Intel I211AT, 2 x USB 3.2, GPIO Isolated Digital I/O Terminal Block

(10-pin, 4 x SI, 4 x SO, 1 x 24V input, 1 x GND))

Expansion

Internal I/O Model 1, 2 & 3	1 x MIO for expansion additional function (TBD)
Model 1	1 x M.2 E key 2230 for WIFI/BT 1 x M.2 B key for optional 4G / 5G / GPS / I/O expansion
Model 2	1 x M.2 E key 2230 for WIFI / Bluetooth 1 x M.2 B key for optional 4G / 5G / GPS / I/O expansion 1 x PCIe3.0 x4 slot, 1 x PCIe3.0 x16 slot *
Model 3	1 x M.2 E key 2230 for WIFI / Bluetooth 1 x M.2 B key for optional 4G / 5G / GPS / I/O expansion 2 x PCIe3.0 x4 slot, 1 x PCIe3.0 x16 slot* Option for 2 x PCIe x8 slot, 2 x PCIe x2 slot
* Maximum add-on expansions card size	H120 x L195mm

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Operating System

Windows 10 / 11
Windows 10 IoT Enterprise
Linux Kernel 5.15 (Ubuntu 22.04)

Power Supply

+9V to +32V DC-in by 3-pin terminal block

Power Consumption

Model 1 (w/o I/O card)	@24V DC input: Idle mode: 1,6A ~ 40Watt 100% CPU load: 5,3A ~ 130Watt (i7-13700TE, 2x8GB MEM, 2x 256GB 2.5" SSD)
Model 2 & 3	TBD

Dimension and Weight

Model 1*	H 190 x W 93 x D 222mm 4kg (gross weight NNkg)
Model 2*	H 190 x W 145 x D 222mm 4.6kg (gross weight NNkg)
Model 3*	H 190 x W 186 x D 222mm 5.4kg (gross weight NNkg)
	*All dimension & weight are without DIN or Wall mount kit

Mounting

DIN-RAIL
Wall mount

Accessories Included

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Wall mount kit

2 x Key lock for 2.5" SSD / HDD drive bays

3-pin Terminal block - DC Power

Accessories Optional

DIN-RAIL kit (model 1 one pcs, model 2 & 3 two pcs)

I/O module (2 x GbE by Intel I211AT, 2 x USB 3.2, 8 x GPIO terminal block w/ 1 x 10pin with isolation)

GPS module + antenna kit

WIFI / Bluetooth module + antenna kit

4G/5G/LTE module + antenna kit

300W external AC/DC adapter kit w/2-pin block (100~240V AC to 24V DC @ 12.5A)

450W external AC/DC adapter kit w/2-pin block

240W DIN-RAIL AC/DC adapter (90~264V AC to 24V DC @ 10A)

480W DIN-RAIL AC/DC adapter (90~264V AC to 24V DC @ 20A)

External smart fan kit

Add on GPU card for model 2 & 3: Supports up to 75W /125W TDP with fan (please contact sales for support)

Add on internal 8-pin CPU to 6+2-pin PCIe power cable for model 2 & 3

Add on card for model 2 & 3: LAN, PoE, Lighting control, digital I/O, COM, CAN etc. (Please contact sales for support)

Dust cover kit for I/O port

Smart Keeper Professional for physical I/O port security

Warranty and After Sales Support

Standard 1 year (option for 3 years)

Ordering Information

486

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