

# Blue Line Thin Client Fanless FPC-3100



Model 2 & 4



**BLUE LINE**  
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark  
T +45 8678 5000 | [www.blue-line.com](http://www.blue-line.com)

# Blue Line Thin Client Fanless FPC-3100

BUILT BY BLUE LINE

Engineered for  
ThinManager® environments



Model 2 & 4



Model 2 & 4



Model 3



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Model 3

## Highlights

The Blue Line FPC-3100 is a slim, fanless industrial PC designed for automation, robotics, IIoT and monitoring systems. Low power consumption and silent, fanless design offer clean and efficient integration into controlled manufacturing areas or monitoring stations.

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 Atom J6412 processor
- Supports DIN-RAIL and Wall mount
- Compact slim design
- 1~6 x COM, 4~6 x USB, 2 x LAN
- Windows 10/11 & Linux
- Wide temp -30°C to 70°C
- Wide range DC input (9 to 36V)
- Fanless operation



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# Blue Line Thin Client Fanless FPC-3100

- Build-to-order configured to your requirements

## Specifications

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### Model Type

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Fanless PC

### Form Factor

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Compact and slim with front I/O

### Construction

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Aluminum heatsink and black steel chassis

### Cooling

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Fanless

### Environment

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Operating temperature	0°C to +60°C ambient w/ air flow and option for -30°C to +70°C 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 2Grms / 5 to 500Hz (random) / operation
Shock	IEC 60068-2-27 15G peak acceleration (11 msec. Duration) / operation

### Certification

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CE/FCC Class A

### Processor

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Fanless Intel Celeron J6412 4C/4T 2GHz, 10W TDP



# Blue Line Thin Client Fanless FPC-3100

## Chipset

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Intel SoC

TPM 2.0 (Intel PTT)

Watchdog Timer (256 steps)

## RAM

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Up to 32GB, 1 x 260-pin DDR4 SO-DIMM 3200MHz

## Storage

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1 x M.2 M key 2242/2280, supports SATA SSD

Option for 1 x MO-297 SATA

## Front Input / Output

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Model 1 (EOL)

2 x USB 3.0 Type A, 4 x USB 2.0 Type A

2 x GbE LAN RJ-45

1 x RS-232/422/485 DB9 port, COM1, default RS-232

2 x RS-232 DB9 port, COM2 and COM3

1 x VGA, 1 x HDMI

1 x Line-out 3.5mm Phone Jack connector

1 x 3-PIN DC power input via Terminal Block, 1 x Green power LED light



# Blue Line Thin Client Fanless FPC-3100

## Model 2

2 x USB 3.2 generation 1 Type A  
1 x 2.5GbE RJ45 port by Intel i225LM  
1 x 1GbE RJ45 port by Intel i210AT  
1 x RS-232/422/485 DB9 port - COM1  
1 x DP++ 1.4  
1 x HDMI 2.0b  
1 x Line-out 3.5mm Phone Jack connector  
1 x 3-PIN DC power input via Terminal Block, 1 x Green power LED light  
4 x PreCut SMA holes for antennas

## Model 3

2 x USB 3.2 generation 1 Type A  
4 x USB 2.0 Type A  
1 x 2.5GbE RJ45 port by Intel i225LM  
1 x 1GbE RJ45 port by Intel i210AT  
1 x RS-232/422/485 DB9 port - COM1  
5 x RS-232 DB9 port - COM2/3/4/5  
1 x DP++ 1.4  
1 x HDMI 2.0b  
1 x Line-out 3.5mm Phone Jack connector  
1 x 3-PIN DC power input via Terminal Block, 1 x Green power LED light, 1 x Power Button  
2 x PreCut SMA holes for antennas



# Blue Line Thin Client Fanless FPC-3100

Model 4	2 x USB 3.2 generation 1 Type A
	4 x USB 2.0 Type A
	1 x 2.5GbE RJ45 port by Intel i225LM
	1 x 1GbE RJ45 port by Intel i210AT
	1 x RS-232/422/485 DB9 port - COM1
	1 x DP++ 1.4
	1 x HDMI 2.0b
	1 x Line-out 3.5mm Phone Jack connector
	1 x 3-PIN DC power input via Terminal Block, 1 x Green power LED light
	4 x PreCut SMA holes for antennas

## Expansion

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Model 1	2 x Mini-PCIe full size slot
	1 x M.2 E key 2230 for WIFI / Bluetooth
Model 2/3/4	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 *

## Operating System

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Windows 10 / 11  
Windows 10 IoT Enterprise  
Linux Kernel 4.15 (Ubuntu 18.04)

## Power Supply

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+9V to +36V DC-in by 3-pin terminal block

## Power Consumption

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Model 1	TBD
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# Blue Line Thin Client Fanless FPC-3100

Model 2 & 4

Max. power consumption: 24.44W

Model 3

Max. power consumption: 25.66W

## Dimension and Weight

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Model 1\*

H 130 x W 35,5 x D 180mm

1kg (gross weight NNkg)

Model 2\*

H 180 x W 40 x D 130mm

1,5kg (gross weight 2,5kg)

Model 3\*

H 180 x W 58,5 x D 130mm

2kg (gross weight 3kg)

Model 4\*

H 182,4 x W 45,9 x D 130mm

1,5kg (gross weight 2,5kg)

\*All dimension & weight are without DIN or Wall mount kit

## Mounting

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DIN-RAIL

Wall mount

## Accessories Included

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Wall mount kit

AC to DC 12V/60W Power adapter with 3-pin Terminal block

## Accessories Optional

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DIN-RAIL kit

GPS module + antenna kit

WIFI / Bluetooth module + antenna kit

4G/5G/LTE module + antenna kit

120W DIN-RAIL AC/DC adapter (85~276V AC to 12V DC @ 10A)



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# Blue Line Thin Client Fanless FPC-3100

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## Warranty and After Sales Support

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Standard 1 year (option for 3 years)

## Ordering Information

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TBD



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