Blue Line Vehicle PC VPC-2000

Model 1

Blue Line Vehicle PC VPC-2000

Model 1

Model 1

Model 1

Model 1

Blue Line Vehicle PC VPC-2000

Model 2 & 3

Model 2 & 3

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Highlights

The VPC-2000 is a durable in-vehicle computer available in three versatile models.
Model 2 features an embedded SuperCAP UPS, ensuring resilience against power interruptions and voltage fluctuations for a secure shutdown during power loss.

Model 3 is equipped with a Cassette module, enabling an additional generation 3 x 2 PCIe slot for accommodating an AI accelerator module with a customized thermal solution. This configuration transforms the VPC-2000 into a fanless

Blue Line Vehicle PC VPC-2000

GPU computer suitable for intelligent video analytics or a data logger with perception. Designed to thrive in challenging electrical environments, the VPC-2000 is an ideal solution for off-highway applications such as trucks, cargo vehicles, and rolling stock.

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.

• Fanless and rugged in-vehicle computer

• Intel Elkhart Lake Atom processor

• E-Mark certified and EN 50155 EMC compliant

• 4 x PoE+ GbE ports via M12 x-coded connectors

• 1 x front-accessible 2.5" HDD tray and 1 x M.2 2280

• 1 x M.2 for 4G / 5G mobile broadband

• 2 x mPCIe sockets for WIFI / CAN / GNSS modules

• +8 to 35V wide-range DC input with ignition power control

• Wide temp -40°C to 70°C

• Build-to-order configured to your requirements

Specifications

Model Type

Vehicle PC

Form Factor

Compact

Construction

Aluminium

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Cooling

Fanless

Environment

Operating Temperature	-40°C to 70°C (with wide temp MEM / SSD)
Storage Temperature	-40°C to 85°C
Humidity	10% to 90%, non-condensing
Vibration operating	MIL-STD-810G, method 514.7, category 4 IEC61373:2010, category 1, class B body mounted (part of EN50155)
Shock operating	MIL-STD-810G, method 516.7, procedure I IEC61373:2010, category 1, class B body mounted (part of EN50155)

Certification

Model 1, 2 & 3	CE/FCC class A according to EN 55032 & EN 5503
Model 1 & 3	E-Mark certified and EN 50155 EMC compliant

Processor

Intel Elkhart Lake Atom x6425E quad-core 2.0GHz / 3.0GHz (12W TDP)

Chipset

SoC

RAM

Up to 32 GB, 1 x 260-pin DDR4-3200 SDRAM socket

Storage

1 x M.2 2280 M key (SATA interface only) socket for SATA SSD installation
1 x 2.5" front-accessible tray for HDD / SSD installation (up to 15mm height)

Front Input / Output

1 x Power switch

1 x Audio 3.5 mm jack for mic-in and speaker-out isolated

1 x USB 3.1 generation 1 type A ports with screw-lock

2 x USB 2.0 type A ports with screw-lock

1 x RS-422/485 (COM2) or 3 x 3-wire RS-232 ports (COM2 / 3 / 4)

1 x Isolated RS-485 port with 15 kV ESD protection (COM1)

1 x DVI-I connector for video port

LED indicators (IGN, WDT, HDD, PWR)

Rear Input / Output

1 x 3-pin pluggable terminal block for +8 to 35V DC input

1 x 3-pin pluggable terminal block for remote ON/OFF control and PWR LED output

4 x IEEE 802.3at (25.5W) gigabit PoE+ ports by Intel i210 via M12 x-coded connectors

1 x DB15 port for 4-CH isolated DI and 4-CH isolated DO

Expansion

Model 1, 2 & 3	1 x Full-size mini PCI express socket with PCIe and USB 2.0 signal
	1 x Full-size mini PCI express socket with USB 2.0 signal M.2 B key
	1 x M.2 3042/3052 B key (USB 3.1 + USB 2.0) for 4G/5G module with dual internal micro SIM socket
Model 3	1 x Internal PCIe x2 gen3 in 4-lane slot (signal in Cassette)

Operating System

Windows 10 / 11

Windows 10 IoT Enterprice

Linux

Power Supply

Model 1, 2 & 3	1 x 3-pin pluggable terminal block for +8 to 35V DC input with built-in ignition power control (IGN/GND/V+)
Model 2	Internal SuperCAP power backup w/capacity for 2500 watt-second

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Power Consumption

TBD

Dimension and Weight

Model 1	H 58 x W 205 x D 155mm	1.9kg (gross weight NNkg)
Model 2	H 86 x W 205 x D 155mm	2.5kg (gross weight NNkg)
Model 3	H 86 x W 205 x D 155mm	2.3kg (gross weight NNkg)

Mounting

Damping bracket (default)

Wall-mount (optional)

Accessories Included

Damping bracket kit

Model 2 built-in SuperCAP UPS

Model 3 single-slot PCIe Cassette

Accessories Optional

120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -30 to 70°C

160W AC-DC power adapter 20V/8A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -30 to 70°C

Wall mounting kit

GPS module + antenna kit

WIFI / Bluetooth module + antenna kit

4G / 5G / LTE module + antenna kit

CAN Port

Warranty and After Sales Support

Standard 1 year (option for 3 years)