

Blue Line Vehicle PC VPC-1000



BLUE LINE
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
T +45 8678 5000 | www.blue-line.com

Blue Line Vehicle PC VPC-1000



Highlights

Keep your vehicle systems connected and operational, even in the most demanding environments. The Blue Line Vehicle PC VPC-1000 gives you a compact and fanless computing platform with intelligent power management and 5G/LTE connectivity, helping you simplify integration and maintain reliable operation on the move.

Vehicle installations often leave little room for additional hardware. The ultra-compact VPC-1000 helps you integrate computing, communication and vehicle interfaces into a single platform, reducing installation space while supporting modern connected vehicle applications.



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Whether managing fleets, digital cockpits or mobile operations, reliable communication is essential. Optional 5G or LTE connectivity helps you access and exchange critical data in real time, supporting efficient operation across demanding vehicle applications.

- Fanless in-vehicle computer EV smart cockpit
- NXP i.MX 8 QuadXPlus automotive grade Soc
- Built-in accelerometer, gyroscope, and magnetic sensor
- 3 x CAN / CAN FD
- 8 x DI, 4 x DO and 2 x RS-232
- 3 x M.2 slot
- Wide temp -40°C to 70°C
- Build-to-order configured to your requirements

Specifications

Model Type

Fanless vehicle PC

Form Factor

Ultra Compact

Construction

Steel

Cooling

Fanless

Environment



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Operating Temperature	-40°C to 70°C, ambient w/ 0.6m/s airflow
Storage Temperature	-40°C to 85°C
Humidity	10% to 90% , non-condensing
Vibration operating	MIL-STD-810G, method 514.6, procedure I, category 4, IEC 60068-2-64,
Shock operating	MIL-STD-810G, method 516.6, procedure I, trucks and semi-trailers=15G (11ms) with SSD

Certification

CE, FCC, class A, E13, ECE, R118

Processor

	NXP i.MX 8QuadXPlus Automotive SoC (AEC-Q100 Grade 3)
CPU	Integrated 4 x Arm Cortex-A35 Cores Up to 1.2 GHz 1 x Am Cortex-M4F Core Up to 264 MHz
Built-in GPU	1 x GC700Lite with 4 x Vec4 shader cores (16 execution units)

Chipset

SoC

RAM

On-board LPDDR4 3 GB

Storage

Onboard eMMC 5.1, 32 GB
1 x Micro SD slot

Front Input / Output

1 x DVI-D Single Link
1 x USB 2.0 OTG



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2 x USB 3.2 Type A 5 Gbps

1 x GbE via RJ45 Port

1 x Nano SIM Slot*

1 x Micro SD Slot

* Internal 4G/5G LTE Modem required

Rear Input / Output

1 x RS-232 COM1 DB9 Port

1 x RS-232 / 422 / 485 COM2 DB9 Port

3 x CAN /CAN FD in one DB9 Port

8 x DI (5 to 60VDC) & 4 x DO (5VDC, 100mA)

8 x Antenna output option

1 x Ground

Expansion

1 x M.2 3042/3052 key B for 4G/5G Modem (WWAN)

1 x M.2 2242 key B for GPS

1 x M.2 key A-E for WIFI

Operating System

Yocto Linux

Power Supply

+9V to 60V power input

Power protection automatics recovery short circuit protection

Power-off delay control vehicle power ignition for variety vehicle

Power off control

Power off delay time setting by software

Power Consumption

TBD

Dimension and Weight



Blue Line Vehicle PC VPC-1000

Dimension	H 43 x W 214 x D 150mm
Weight	1kg

Mounting

Wall-mount

Accessories Included

Wall-mount kit

Accessories Optional

GPS module + internal antenna kit
5G / 4G LTE module + internal antenna kit
Bluetooth / WIFI module + internal antenna kit
Micro SD Card 64/128/256GB 3D TLC WT
AC to DC Power adapter 12V/5A 60W with ignition

Warranty and After Sales Support

Standard 1 year (option for 3 years)

