VEC6200

ITxPT COMPLIANT VEHICLE EDGE COMPUTER PLATFORM

VEC6200 is a vehicle edge computer platform designed to meet the open ITxPT standard and the public transportation market requirements, but is also suitable for other on board vehicle applications.

Reliability, Security, Long life support and Future proof have been some of the key elements when designing this edge computer.

The VEC6200 is configurable for different performance levels as well as wireless interfaces and it comes with a wide range of interfaces. Everything supported by a Yocto Linux BSP package.

VEC6200 can be used for different kind of ITxPT functions like Vehicle Communication Gateway, GNSS location, FMStoIP, VEHICLEtoIP, Advanced Monitoring System and more.

The platform can also be used for other applications like eco driving, tracking, data logging, remote diagnostics etc.

If it still not fulfill all your requirements, we can customize it for you.

Key features

ITxPT compliant

Flexible configuration with performance up to Quad Core

Supports 4G/5G with dual SIM and eSIM as well as WiFi and Bluetooth

Wide range of interfaces like Ethernet, USB, HDMI, CAN, J1708, RS232/485, Digital and Analog IO

Trusted platform module (TPM) to support high security and encryption.

Yocto Linux BSP

E mark R10/R118

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TECHNICAL SPECIFICATIONS

GENERAL
NXP i.MX6 DualLite/Dual/Quad
1/2/4 GB RAM
Up to 64GB eMMC

OS
Yocto Linux

RADIO
1 x M.2 for modem, dual SIM (eSIM optional)
1 x M.2 for WIFI/BT

POSITIONING:
1 x GNSS, optional dead reckoning (ADR/UDR)

INTERFACES:
2 x 10/100/1000 Mbit Ethernet RJ45 (opt. M12)
2 x USB 2.0 (High retention connector)

VIDEO:
1 x HDMI (VGA optional)

Diagnostics:
WLAN/WIFI/Power LED
User controllable multi-color LED

POWER
VBAT: 12/24VDC input (9-36VDC wide range)

SENSORS / MISC
Accelerometer and Gyro

SECURITY
TPM 2.0

WAKE-UP
Ignition, Accelerometer, Digital input, RTC
(SW configurable)

HOUSING
IP40

DIMENSIONS
287 (incl mounting bracket) x 143 x 55 mm

TEMPERATURE
Operating: -20 °C to +70°C

CERTIFICATION
CE, FCC, E-Mark

MULTIPIN CONNECTORS
All JAE IL-AG5 pins survive short circuit to VBAT or GND

MOLEX MINI-FIT, 4P:
VBAT, Ignition

JAE IL-AG5-30P-D3L: Digital/Analog I/O
4 x Analog in (0-36V or 4-20mA, SW selectable)
4 x Digital in (logic 0 < 2V, logic 1 > 6.5V)
4 x Digital out, high side, VBAT 500mA
5 x Digital out, low side (open collector)

JAE IL-AG5-22P-D3L: Communications
2 x CAN 2.0B (split termination, support listen-only mode, SW selectable 120R termination)
2 x J1708/RS485 (J1708/RS485 mode SW selectable, SW selectable 120R termination)
2 x RS232 (RX/TX/RTS/CTS)

JAE IL-AG5-18P-D3L: Audio

2 x Audio Line out,	2 x Audio Line in
1 x Mic in,	3 x Digital out, low side (open collector)

State :   0.1

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TECHNICAL DRAWINGS

PRELIMINARY

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A SMARTER SOLUTION
starts from inside

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