VCU Pro Onboard Unit Datasheet

Vehicle Connectivity Gateway





VCU Pro Onboard Unit

VCU Pro is the advanced on-board unit from the Vehicle Connectivity Unit series. With 4 CAN interfaces (2 standard CAN and 2 CAN FD), 4 analog inputs and 4 digital outputs VCU Pro is a professional and robust vehicle gateway. Two independent processors ensure both a safe and secure connection to the vehicle network and also provide a universal communication capability.

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| CPU | ARM® 1 GHz | Automotive Connector | MOLEX (48 pins) |
|---------|-------------------------------|----------------------|-----------------|
| RAM | 1 GB | Antenna Connectors | SMA Female |
| Memory | 8 GB Flash | | |
| Sensors | 3 Axis Accelerometer | Mounting Option | Screws |
| | 3 Axis Gyro | | |
| GNSS | GPS, Glonass, BeiDou, Galileo | | |

VCU Pro Onboard Unit

| Communication and Interfaces | | |
|----------------------------------|--|--|
| 2x CAN 2.0B | | |
| 2x CAN FD | | |
| 4x Analog IN | | |
| 4x Digital OUT | | |
| 1x Ethernet 100 BaseT | | |
| 2x Ethernet BrdrR | | |
| WiFi 802.11 a/b/g/n | | |
| Bluetooth 4.2 | | |
| 1x RS232 | | |
| 1x LIN | | |
| 1x K-Line | | |
| 1x embedded SIM + 2x plastic SIM | | |
| (accessible) | | |
| Cellular - LTE Cat4 (EMEA + | | |
| Asia/Pasific version) | | |
| | | |

GNSS uBlox NEO-M8L with Dead Reckoning Processors and modules ARM Cortex A8 (1GHz) Infineon Aurix Microcontroller (200MHz, 472 KB RAM) HSM (Hardware Security Module) for cloud communication secure key storage Second HSM for diagnostic key sessions GTM (Generic Timer Module)

Sensor Network 3 Axis Accelerometer 3 Axis Gyro

Power Supply Nominal Voltage: 9–36 V DC

System Linux Operating System Fail-safe OTA update Mechanical

Material: Aluminum / Plastic Waterproof housing Operating temperature from -40°C to +75°C Protection level: IP5K5

Memory 1 GB RAM 8 GB eMMC Flash

Approvals E-Mark ISO16750 Fire safety

Certification CE FCC (components)

