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)

