ADM-IM10

Cost Effective i.MX8M Plus ARM Cortex A53 Vehicle Gateway

ADM

Features

- Arm based Vehicle Gateway with palm size (130mm x 110mm x 40mm)
- i.MX 8M Plus CPU with 9-36v power input, MCU ignition control
- 2x 10/100/1000 Mbps Ethernet ports, RJ45
- 1x HDC (DB26) with 2x CAN, audio, Mic-in, 2x RS-232
- Capable with 1x WiFi6 and 1x LTE/5G M.2 module
- E-Mark (12V/24V) design compliance
- ISO-7637-2 automotive certification

Specifications

Specifications		
System Core	CPU	i.MX8M Plus ARM Cortex A53 Quad Core 1.6GHz
	Memory	2 GB LPDDR4 onboard
	Storage	32 GB eMMC, 1x MicroSD slot, support up to 2TB SDXC
I/O Ports	Video/ Display	1x HDMI
	Ethernet	2x 10/100/1000 Mbps Ethernet ports RJ-45
	USB	2x USB3.0, type-A
	COM ports	2x RS-232/422/485
	SIM	1x Micro SIM slot
	M.2 B Key	1x M.2 B Key (for 4G LTE/5G Module or GNSS)
	M.2 E Key	1x M.2 E Key (for WiFi/ BT)
	High Density Connector (DB26)	2x RS-232 COM, 2x DI/DO, 1x Mic-in, 1x Line-out , 2x CAN Bus
Power Requirements	DC Power Input	9 to 36 VDC, 3-pin terminal block
	Ignition Control	Supports ignition Sense Standby power consumption: @24V consume current under 10mA
Mechanical	Mounting	Wall mount, din rail
	Dimension	130mm (W) x 110mm (D) x 40mm (H)
	Weight	0.4 kg
Sensor	IMU	1x G-sensor and gyroscope

Specifications		
Environmental	Operating Temperature	-40°C to 85°C w/o all wireless module operating 0°C to 70°C w/ all module operating (Depending on module)
	Storage temperature	-40°C to 85°C
	Relative Humidity	5 to 95% (non condensing)
Certification	EMC	CE, FCC, RCM
	Vehicle Regulation	E-Mark (12/24V), ISO-7637-2
	Shock	MIL-STD-810H
	Vibration	MIL-STD-810H
	Green	RoHS
Software	OS	Linux Yocto; Debian
Packing	Terminal block for power connector	Packaging list : 1x Terminal block for power connector
	Dust Covers	1x USB, 1x HDMI

Optional Accessories	
4G LTE Antenna	2x I-PEX MHF4L to SMA RF cable,(inside) 2x External Dipole type antenna, Wideband cellular Blade style antenna, support 2G/3G/4G/5G Bands, right angle hinge joint with SMA Male connector.
WiFi Antenna	2x I-PEX MHF4L to SMA RF cable,(inside)
External Antenna for GPS	1x I-PEX MHF4L to SMA RF cable,(inside) 1x GPS/Glonass external antenna, L=5m, SMA(M), RG-174/U, Magnet Active antenna, LNA gain: 27 +/-3dB, 3V

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