

ADM-IM10

Cost Effective i.MX8M Plus ARM
Cortex A53 Vehicle Gateway



Features

- Arm based Vehicle Gateway with palm size (131mm x 110.5mm x 40mm)
- i.MX 8M Plus SoC with 9-36v power input, MCU ignition control
- 2x 10/100/1000 Mbps Ethernet ports
- 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	4GB LPDDR4 onboard, 2GB by Project-based
	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 RJ45 Ethernet ports
	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 3042 B Key (For 4G LTE/5G Module or GNSS)
	M.2 E Key	1x M.2 2230 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

Specifications		
Mechanical	Mounting	Wall mount, din rail
	Dimension	131mm (W) x 110.5mm (D) x 40mm (H)
	Weight	0.4 kg
Sensor	IMU	1x G-sensor and gyroscope
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 METHOD 516.8 Procedures I
	Vibration	MIL-STD-810H METHOD 514.8, Category 4, Figure 514.8C-2, IEC 60068-2-64
Software	Green	RoHS
	OS	Linux Yocto; Debian
Packing	Terminal block for power connector	Packaging list : 1x Terminal block for power connector
	Dust Covers	1x USB, 1x HDMI

Ordering Information		
ADM-IM10-IMX8MP-M4G-e32G-YOCTO	i.MX8MP-Plus, Quad Core, 4GB LPDDR4, 32GB eMMC, Yocto	
ADM-IM10-IMX8MP-M4G-e32G-DEB	i.MX8MP-Plus, Quad Core, 4GB LPDDR4, 32GB eMMC, Debian	

Optional Accessories	
Micro SD Card	
Wireless Kit	
• WiFi/BT/4G LTE/5G wireless kit	

Dimension



Connector	Description
COM 1/2	RS232/422/485 4-wire
SD / SIM	microSD and μSIM slot
HDC	DB26 connector: break-out cable for CAN1/2, MICIN, LINEOUT, RS232 COM3/4, DI/DO
PWR	Power LED: Green
WLAN	WIFI LED: Green
WWAN	5G/4G LED: Green
PGM	User-defined LED: Green

Connector	Description
9-36VDC	DC power input
USB 1/2	USB 3.0 Type-A
LAN 1/2	Gigabit Ethernet (RJ45)
ANT 1/2/3/4/5	Antenna connector (for optional Wi-Fi/BT/4G/5G/GNSS)
Micro-b	Micro USB Connector (reserved)
HDMI	Display output
Reset Button	Soft reset