# ADM-IM10

Cost Effective i.MX8M Plus ARM Cortex A53 Vehicle Gateway




ADM

## 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<br>Standby power consumption: @24V consume current under 10mA |



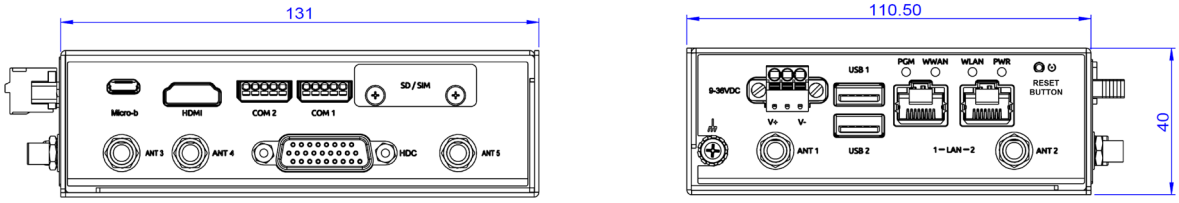
Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

| 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<br>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 |
| | 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 |

| Ordering Information | |
|---|---|
| ADM-IM10-IMX8MP-M4G-e32G-YOC | i.MAX8MP-Plus, Quad Core, 4GB LPDDR4, 32GB eMMC, Yocto |
| ADM-IM10-IMX8MP-M4G-e32G-DEB | i.MAX8MP-Plus, Quad Core, 4GB LPDDR4, 32GB eMMC, Debian |

| Optional Accessories |
|---|
| Micro SD Card |
| Wirekess Kit<br>• 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 |

All products and company names listed are trademarks or trade names of their respective companies. Updated May. 02, 2025.
©2025 ADLINK Technology, Inc. All Rights Reserved. All pricing and specifications are subject to change without further notice.