

## M357-AI

### Industrial 5G Edge AI Gateway



#### Introduction

Proscend M357-AI is an Industrial 5G Edge AI Gateway with embedded 5G NR and Edge AI acceleration capabilities. By leveraging the pre-trained AI data models, the M357-AI features the highly integrated, secure, real-time, top performing IIoT device empowering AI inference at the nearest end of fields where vast field data must be collected, learned, and processed locally.

The 5G NR of M357-AI enables reliable, secure broadband communications and accelerates the speed up to 2.5Gbps as a perfect rival wireless solution exceeding most of the existing fixed-line networks, it strengthens the Quality-of-Service and encrypts the critical data from the AI process, before carrying the data over public or private 5G networks.

The M357-AI allows third-party developers and users to develop tailor-made functions on top of either OpenWRT platform or Docker Engine supported by the M357-AI. The highly integrated hardware platform consisting of a 7nm Quad-core ARM CPU, packet engine, 5G radio, GPU, extended memory storage, and peripheral interfaces features the unparalleled advantages of high computing power, low power consumption, and compact size for solution integrators to maximize their values in the areas of transportation, surveillance, smart manufacturing, and more.

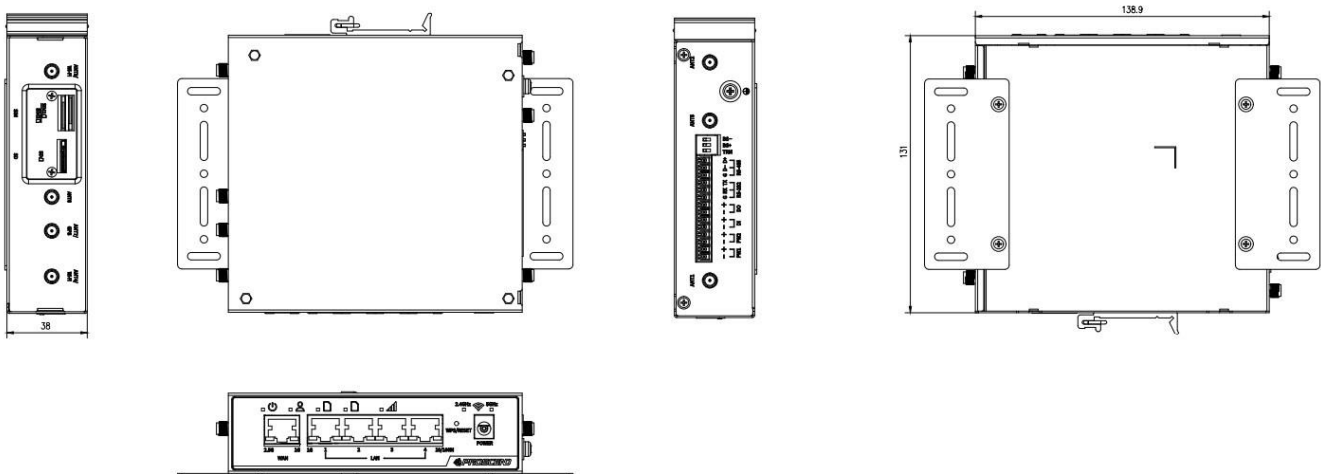
#### Features

- Support multiple band connectivity with 5G NR / FDD LTE / TDD LTE
- CPU Quad ARM® Cortex-A55 operating up to 2.0GHz
- Extended memory storage of up to 512GB
- GPU embedded for AI computing
- AI trained model updates over the cloud
- Support 3<sup>rd</sup>-party Apps on OpenWRT and Docker Engine
- Subscription-based Cyber Security
- Failover between dual SIM and 2.5G WAN for network resilience
- Secure VPN connections and encryption
- Industrial design for operation in harsh environments

## Specifications

<p><b>Cellular Interface</b></p> <ul style="list-style-type: none"> <li>■ 5G: NR FDD/TDD</li> <li>■ 4G: LTE FDD/TDD</li> <li>■ 3G: UMTS FDD</li> </ul> <p><b>Hardware interface</b></p> <ul style="list-style-type: none"> <li>■ 1 x 2.5G WAN port compliant with 802.3bz</li> <li>■ 4 x 1000Base-T LAN ports compliant with 802.3ab</li> <li>■ 2 x SIM slots</li> <li>■ 1 x Micro SD slot</li> <li>■ 1 x RS-232 (TXD/R/GND)</li> <li>■ 1 x RS-485 (D+/D-/GND, Non-Isolated)</li> <li>■ 1 x DI (Non-Isolated), 1 x DO (Non-Isolated)</li> <li>■ 5 x SMA connectors for detachable 5G/LTE/GPS(Passive) Antenna</li> </ul> <p><b>Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>■ Enclosure : Metal Case</li> <li>■ Dimensions (W x H x D) : 138.9 x 38 x 131 mm</li> <li>■ Weight : 715g</li> <li>■ Installation : Wall mounting, DIN-rail mounting, desktop.</li> </ul> <p><b>LED Display</b></p> <ul style="list-style-type: none"> <li>■ System operation, user defined indicator</li> <li>■ SIM card presence, cellular signal strengths</li> <li>■ Ethernet WAN/LAN link and speed</li> </ul>	<p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>■ Terminal block power Input: 10 ~24 VDC</li> <li>■ DC Jack power Input: 12 VDC, 2A</li> <li>■ Power Consumption: 20 (Max)</li> </ul> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>■ IPv4, IPv6, DHCP server and client, Static IP, SNTP</li> <li>■ NAT, Virtual Server, Static Routing</li> <li>■ VPN: OpenVPN</li> <li>■ Web GUI with HTTPS</li> <li>■ Dual Image</li> <li>■ Syslog monitor</li> <li>■ SSH v2</li> </ul> <p><b>Environment</b></p> <ul style="list-style-type: none"> <li>■ Operating Temperature -30 ~ +60°C</li> <li>■ Storage Temperature -40 ~ +85°C</li> <li>■ Ambient Relative Humidity 10 ~ 95% (non-condensing)</li> <li>■ Humidity 0 ~ 95% (non-condensing)</li> </ul> <p><b>Standards and Certifications</b></p> <ul style="list-style-type: none"> <li>■ NCC &amp; BSMI CNS15936 &amp; CNS15598-1</li> </ul>
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## Dimensions



## Ordering Information

Model Name	Description
M357-AI	Industrial 5G Edge AI Gateway

**NOTE:** Features and specifications are subject to change without prior notice.