

M700 Series

Industrial Connectivity-Ready Edge AI Platform



Introduction

Proscend Industrial Connectivity-Ready Edge AI Platform M700 Series is embedded with NVIDIA Jetson Orin NX module and 5G NR/4G LTE/WAN capabilities with routing software. By leveraging the pre-trained AI data models, the M700 Series features a highly integrated, secure, real-time, top-performing edge device empowering AI inference at the nearest end of fields where vast field data must be collected, learned, and processed locally.

Proscend M700 Series allows AI ISV (Independent Software Vendor) to develop tailor-made AI applications, responding to various, dynamic Edge AI areas such as transportation, surveillance, smart manufacturing, and more.

The built-in 5G NR or 4G LTE, and WAN interfaces, alone and in combination, together with sophisticated software suites supporting IPv6, IPv4, VPN, NAT, Firewall, etc. further strengthen the wired and wireless connectivity by exceeding most of the existing fixed-line networks. As a combination of Edge AI machine and communication gateway, Proscend M700 Series features the most compact form factor, the fastest Time-to-Market, and the least power consumption solution for converging AI and Industrial IoT in one magic gateway.

Features

- Support multiple band connectivity with 5G NR / FDD LTE / TDD LTE
- Embedded NVIDIA Jetson Orin NX module
- Embedded Graphics Engine supporting H/W encode/decode up to 4K60
- Failover between wired Ethernet WAN and wireless 5G/4G for network resilience
- Secure VPN connections and encryption
- Mighty Fanless Design
- Industrial design for operation in harsh environments

Specifications

Cellular Interface

- 5G: NR FDD/TDD (M700-5G)
- 4G: LTE FDD/TDD (M700-4G)

Hardware interface

- 2 x USB3.2 Type A
- 1 x WAN/LAN 1000Base-T sharing port compliant with 802.3ab
- 1 x LAN 1000Base-T ports compliant with 802.3ab
- 1 x HDMI 2.0, for up to 3840 x 2160 resolution at 60Hz
- 1 x Nano SIM slot
- 1 x USB 2.0 OTG port (Device only for development)
- 1 x RESET Button
- 4 x SMA connectors for detachable 5G/LTE Antenna

Physical Characteristics

- Enclosure : Metal Case
- Dimensions (W x H x D) : 152 x 49x 150 mm
- Weight : 1300 g (M700), 1380 g (M700-4G), 1430 g (M700-5G)
- Installation : Wall mounting, DIN-rail mounting, Desktop

LED Display

- 1 x Power status
- 1 x Programmable

Power Supply

- Terminal block power Input: 9~36 VDC
- Power Consumption: 40 watts (Max)

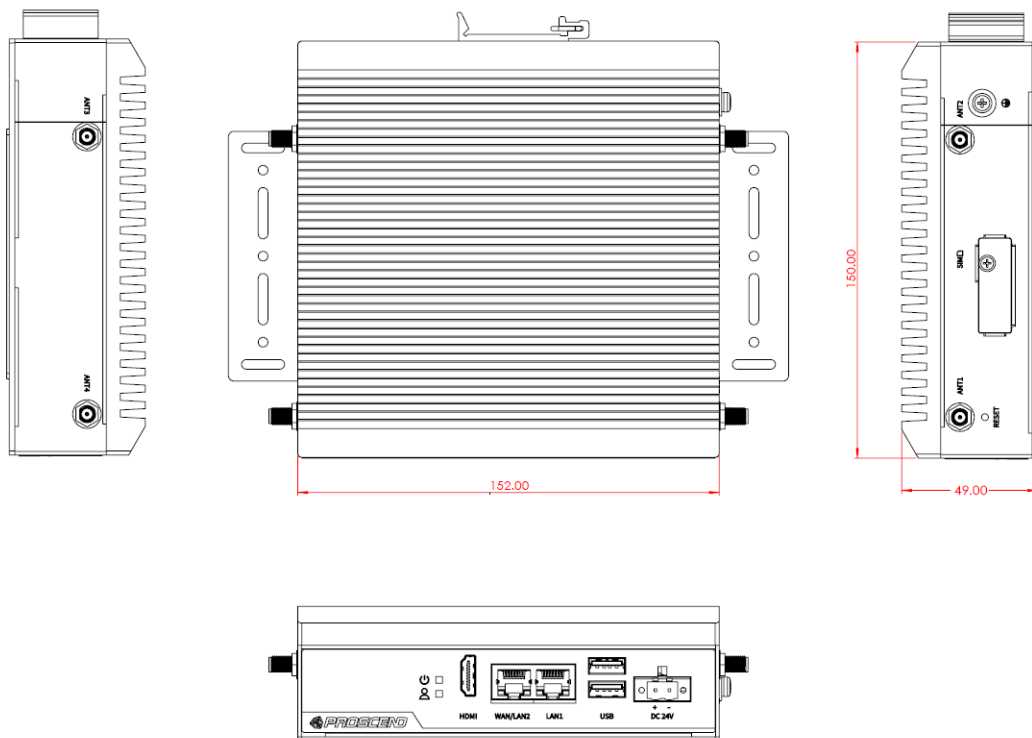
Software

- Network Protocols
IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, DNS Proxy
- Routing/Firewall
NAT, Virtual Server, MAC Filter, IP Filter, Static Routing, IPS, SPI
- VPN
OpenVPN, IPSec (3DES, AES128, AES192, AES256, MD5, SHA-1, SHA256), L2TP
- Management
Web GUI for remote and local management
Syslog monitor
Remote management via SSH v2, HTTPS
Local management via Telnet, SSH v2, HTTP/HTTPS

Environment

- Operating Temperature -20~ +60°C
- Storage Temperature -40 ~ +85°C
- Ambient Relative Humidity 5 ~ 95% (non-condensing)
- Humidity 0 ~ 95% (non-condensing)

Dimensions



Ordering Information

Model Name	Description
M700-5G	Industrial 5G Edge AI Platform
M700-4G	Industrial 4G Edge AI Platform
M700	Industrial Edge AI Platform

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