

PROSCEND®

M300/M301 Industrial 4G LTE Router



Introduction

Proscend M300/M301 series 4G/LTE Router is a highly reliable and secure wireless communications gateway designed for industrial networking. It supports multi-band connectivity including FDD/TDD LTE, WCDMA and GSM for a wide range of applications and vertical machine-to-machine (M2M) markets. To enhance reliability, **M300/M301** series is equipped with dual SIM that supports failover and roaming over to ensure uninterrupted connectivity for mission-critical cellular communications.

With flexible LAN/WAN Ethernet options, **M300/M301** series allows you to customize your professional applications in diverse environments. It also provides enterprise-grade software features, such as Quality of Service (QoS) for traffic prioritization, IPSec, OpenVPN, Firewall security and etc. The device is administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS.

Built for secure and uninterrupted operation in harsh environments, **M300/M301** series supports extended operating temperature from -20 to +70°C and a flexible input voltage range of 10-32V DC. **Proscend M300/M301** series is an ideal cellular communications solution for heavy industrial use.

Features

- Highly reliable and secure for mission-critical cellular communications
- Provide flexible options to configure LAN/ WAN ports
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat4
- Built-in dual SIM for network redundancy
- Integrated dual detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -20 to +70°C for use in harsh environments
- IPv6/IPv4 dual stack and all applications are IPv6 ready

Specifications

LTE Interface

- FDD LTE: B1/B3/B5/B7/B8/B20
- TDD LTE: B38/B40/B41
- WCDMA: B1/B5/B8
- GSM: 900/1800 MHz
- LTE Cat4

Interface

- High performance 528 MHz CPU with 512 Mbytes of DDR3 memory
- 2 x SIM Card Slots
- 1 x LAN 10/100 Mbps Ethernet port (Model: M300)
- 3 x LAN 10/100 Mbps Ethernet ports (Model: M301)
- 1 x WAN 10/100 Mbps Ethernet port
- Reset Button
- Console: 1 x RS232 (9-pin Sub-D)
- 2 x SMA connectors for detachable LTE antenna
- 1 x GPS detachable antenna (Optional)
- 1 x RS485 (D+/D-)
- 1 x RS232 (TXD/RXD)
- 2 x DI, 1 x DO (Alarm +/-)

Physical Characteristics

- Enclosure: Metal Shell
- Dimensions (W x H x D): 110 x 60 x 106 mm
- Installation: DIN Rail (Default) or Wall Mount (Optional)

LED Display

- 1 x System status LED (Green)
- 1 x VPN status LED (Green)
- 1 x SIM1 status LED (Green)
- 1 x SIM2 status LED (Green)
- Ethernet status LEDs (Green for LINK/ACT, Yellow for SPEED)
- 2 x Mobile connection strength LEDs (Green)

Power Supply

- Power Consumption 7 Watts(Max)
- Power Input 10 ~ 32V DC

Software

- **Network Protocols:** IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, DNS Proxy, MLDv2, IGMPv3, Modbus, BGP
- **Routing/Firewall:** NAT, Virtual Server, DMZ, Static Routing and RIP-1/2, Port filtering, MAC Filter, URL Filter, IP Filter, QoS, VLAN
- **VPN:** OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256)
- **Wireless Connectivity:** Two SIM for failover/ roaming over/ back up
Two SIM data usage control
Seamless multi WAN connections switch
- **Others:** DDNS, QoS, Virtual Com, UPnP, Web Proxy
- **Alarm:** DI, DO, SMS, VPN/WAN Disconnect, E-mail

Management Software

- Web GUI for remote and local management, CLI
- Dual Image firmware upgrade by Web GUI
- Syslog monitor
- SNMP, FOTA, TR069
- Remote management via Telnet, SSH v2, HTTPS
- Local management via Telnet, SSH v2, HTTP/HTTPS

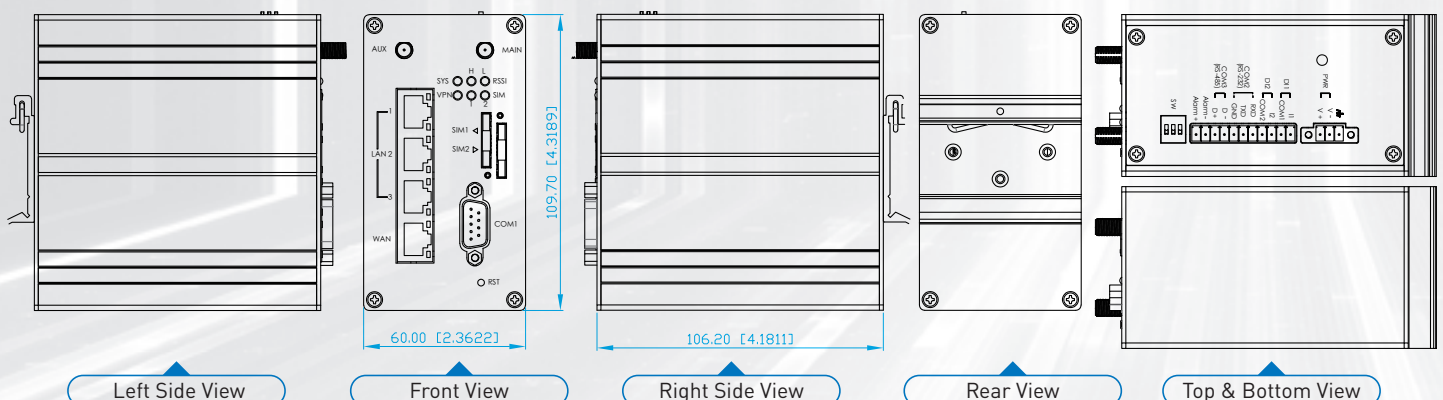
Environment

- Operating Temperature -20 ~ +70°C
- Storage Temperature -40 ~ +85°C
- Ambient Relative Humidity 10 ~ 95% (non-condensing)
- Humidity 0 ~ 95% (non-condensing)

Standards and Certifications

- **EMC:** CE, FCC
- **EMI:** EN 55022 Class A, FCC Part 15 Subpart B Class A
- **EMS:** EN 55024 / EN 61000-4-2 (ESD) Level 3 / EN 61000-4-3 (RS) Level 3 / EN 61000-4-4 (EFT) Level 4 / EN 61000-4-5 (Surge) Level 3 / EN 61000-4-6 (CS) Level 3 / EN 61000-4-8 (PFMF) Level 1 / EN 61000-4-11

Dimensions



Ordering Information

Model	Description
M300	Industrial 4G LTE Router (1 x WAN + 1 x LAN)
M301	Industrial 4G LTE Router (1 x WAN + 3 x LAN)

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

www.proscend.com

2F, No.36, Industry E. Rd. IV, Hsinchu Science Park, Hsinchu, Taiwan. 300
Tel: +886-3-5639000 / Fax: +886-3-5633830 / Email: sales@proscend.com

PROSCEND
Proscend Communications Inc.