

M331

Industrial 4G LTE Dual SIM Cellular Router



Introduction

Proscend M331 Industrial 4G LTE Cellular Router comes with 3 Gigabit LAN ports, 1 Gigabit WAN port and dual SIM support to enable critical industrial applications and reliable IoT connectivity for optimal performance and network redundancy. The M331 is designed with a rugged compact enclosure for DIN-rail or wall mounting to install where tight spaces. The M331 features digital I/O, serial ports (RS-232, RS-485), DC and AC power inputs to provide flexible installation in demanding environments.

Proscend M331 is a highly secure and high-performance cellular router used in a main or backup Internet communications. To fit the deployments at scale and simplify network management, Proscend M331 can work with IoT Management System O'smart, allowing the administrator to remotely monitor, manage, and configure the M331 Cellular Router anywhere, anytime.

Features

- Support multi-band connectivity with FDD LTE / TDD LTE / WCDMA / GSM / LTE CAT4.
- Built-in dual Micro SIM slots, serial ports (RS-232, RS-485), and DI/DO interfaces.
- Detachable antenna design for using a wide variety of external antennas.
- LED indicators for connection and data transmission status.
- Industrial rated from -30 to +70°C for use in harsh environments.
- Support serial communication protocols for flexible connectivity.
- Enhance security and encryption for authentication and transmission.

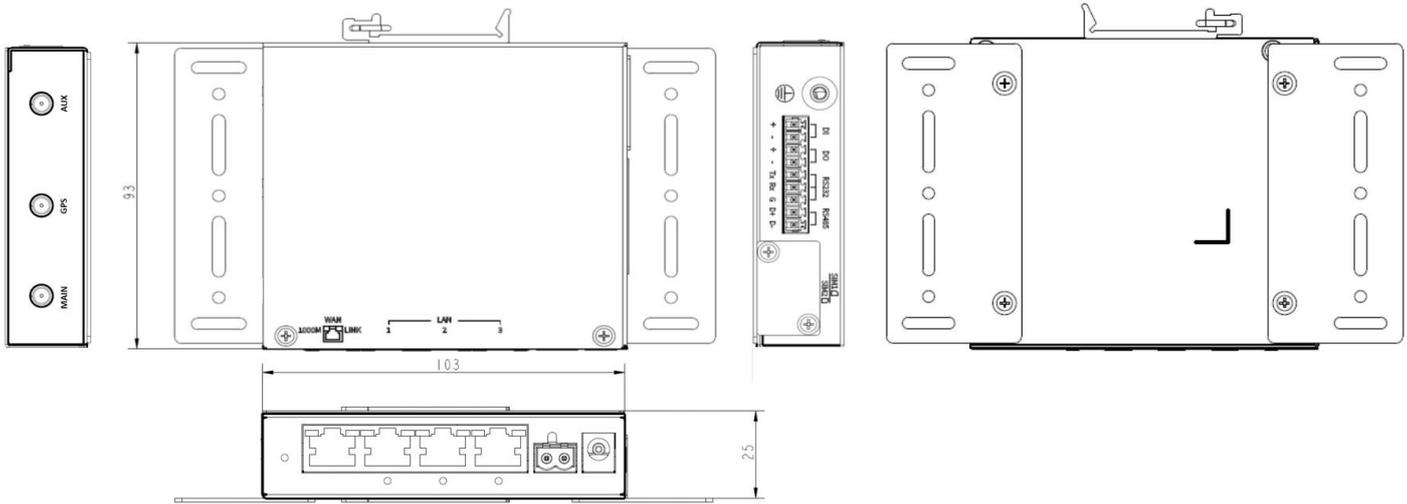
Specifications

<p>Cellular Interface</p> <ul style="list-style-type: none"> ■ 4G: FDD LTE, TDD LTE ■ 3G: WCDMA ■ 2G: GSM ■ LTE Data Rate: CAT 4, 150Mbps (DL), 50Mbps (UL) <p>Hardware Interface</p> <ul style="list-style-type: none"> ■ 2 x Micro SIM slots (push-push type) ■ 3 x LAN 10/100/1000 Mbps Ethernet port ■ 1 x WAN 10/100/1000 Mbps Ethernet port ■ 1 x RESET Button ■ 1 x RS-232 (TX/RX/GND) ■ 1 x RS-485 (D+/D-/GND) ■ 1 x DI (Non-Isolated), 1 x DO (Non-Isolated) ■ 2 x SMA connectors for detachable LTE antenna ■ 1 x SMA connector for detachable GPS antenna ■ 1 x DC jack for AC-DC power adapter ■ 1 x DC power input <p>Physical Characteristics</p> <ul style="list-style-type: none"> ■ Enclosure : Metal Case ■ Dimensions (W x H x D) : 103 x 25 x 93 mm ■ Weight : 350 g ■ Installation : DIN-rail / Wall mounting <p>LED Display</p> <ul style="list-style-type: none"> ■ 1 x Power status ■ 1 x LTE Signal strength ■ 1 x SIM status ■ 2 x Speed and Link status (each LAN/WAN port) <p>Power Supply</p> <ul style="list-style-type: none"> ■ Power Consumption : 7 Watts (Max) ■ DC jack power Input : 12 VDC ■ Terminal block power input: 8 ~ 26 VDC 	<p>Software</p> <ul style="list-style-type: none"> ■ Network Protocols IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, Message Queue Telemetry Transport (MQTT Broker) ■ Routing/Firewall NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, Static Routing, IPS, SPI, Policy Route ■ VPN OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP ■ Others DDNS, QoS, UPnP, SMS Action, GPS TCP Push ■ Alarm DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail ■ Management Web GUI for remote and local management, CLI Syslog monitor SNMP Remote management via SSH v2, HTTPS Local management via Telnet, SSH v2, HTTP/HTTPS <p>Environment</p> <ul style="list-style-type: none"> ■ Operating Temperature -30 ~ +70°C ■ Storage Temperature -40 ~ +85°C ■ Ambient Relative Humidity 10 ~ 95%HR (non-condensing) ■ Humidity 0 ~ 95%HR (non-condensing) <p>Standards and Certifications</p> <ul style="list-style-type: none"> ■ NCC & BSMI CNS15936 & CNS15598-1
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Options of Bands

Option	4G		3G	2G	Region
	FDD LTE	TDD LTE	WCDMA	GSM	
EU	B1, B3, B5, B7, B8, B20	B38, B40, B41	B1, B5, B8	900MHz 1800MHz	Europe, Africa, Middle East, Korea, Thailand, India
AU	B1, B2, B3, B4, B5, B7, B8, B28, B66	B40	B1, B2, B5, B8	850MHz 900MHz 1800MHz 1900MHz	Australia, New Zealand South Africa, Taiwan

Dimensions



Ordering Information

Model Name	Description
M331	Industrial 4G LTE Dual SIM Cellular Router

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