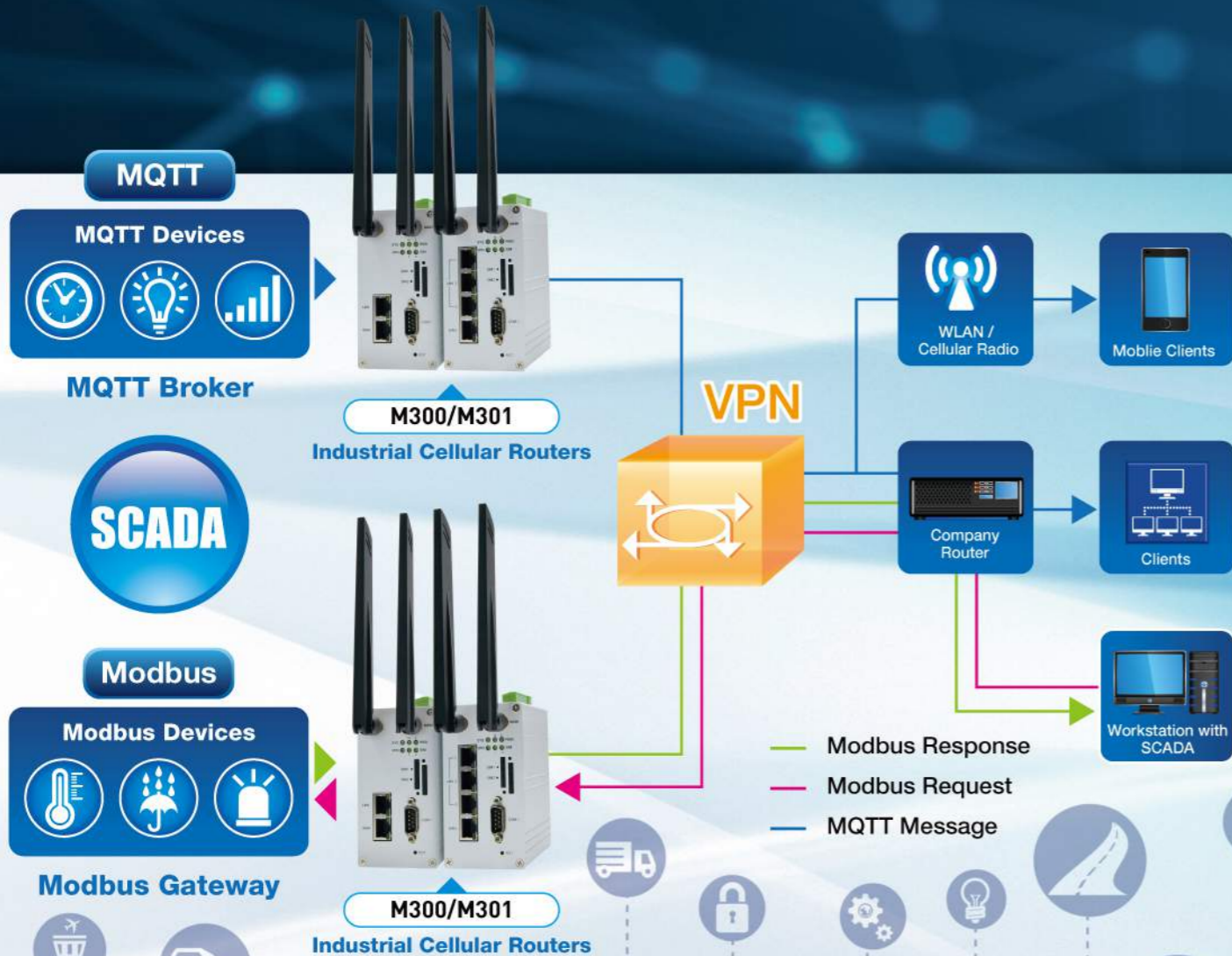


PROSCEND®

Enabling Security and Reliability For Industrial Internet of Things



PROSCEND®
Proscend Communications Inc.

Industrial Connectivity Expert

PROSCEND is dedicated to enabling mission-critical applications and enhancing machine-to-machine connectivity for Industrial IoT. Founded in 1999, PROSCEND offers a comprehensive portfolio of wired and wireless network solutions for indoor and outdoor communications to provide reliable transmission and secure processing of data from a wide variety of industrial network nodes in the global market.

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Model Name	M300	M301	M300-G	M301-G / M301-TG	M301-TPG	M302-LG	M301-TXG (Outdoor IP68 Waterproof)	M360-P (Outdoor IP65)
Industrial 4G LTE Cellular Router (IP40/IP65/IP68)								

Cellular Technology

LTE Interface (2G, 3G ,4G)	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE	GSM/WCDMA/LTE
LTE Band/Frequency	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4 	<ul style="list-style-type: none"> FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz LTE Cat4
Antenna Connector	2 x SMA (MAIN + AUX)	2 x SMA (MAIN + AUX)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)	2 x Embedded high gain antenna

Communication Interface

Ethernet	1 x 10/100 Mbps LAN 1 x 10/100 Mbps WAN	3 x 10/100 Mbps LANs 1 x 10/100 Mbps WAN	1 x 10/100 Mbps LAN 1 x 10/100 Mbps WAN	3 x 10/100 Mbps LANs 1 x 10/100 Mbps WAN	3 x 10/100 Mbps LANs 1 x 10/100 Mbps WAN	4 x 10/100 Mbps LANs	3 x 10/100 Mbps LANs 1 x 10/100 Mbps WAN	1 x 10/100/1000 Mbps LAN with PoE
PoE	N/A	N/A	N/A	N/A	1 x IEEE 802.3at/af PoE P.D.	N/A	N/A	1 x Passive PoE
SIM Card	2	2	2	2	2	2	2	1 (Micro SIM)
Serial	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	N/A	1 x RS485 (D+/D-) 1 x RS232 (TXD/RXD)	N/A
Console Port	RS232	RS232	RS232	RS232	RS232	RS232	RS232	N/A
I/O	2 x DI, 1 x DO (Alarm +/-)	2 x DI, 1 x DO (Alarm +/-)	2 x DI, 1 x DO (Alarm +/-)	2 x DI, 1 x DO (Alarm +/-)	2 x DI, 1 x DO (Alarm +/-)	N/A	2 x DI, 1 x DO (Alarm +/-)	N/A
GPS	N/A	N/A	1	1	1	1	1	N/A

Temperature & Power

Operating Temperature	-20 to +70 °C	-20 to +70 °C	-20 to +70 °C	<ul style="list-style-type: none"> M301-G: -20 to +70 °C M301-TG: -40 to +75 °C 	-40 to +75 °C	-20 to +70 °C	-40 to +75 °C	-20 to +60 °C
Input Voltage	10~32 VDC	10~32 VDC	10~32 VDC	10~32 VDC	10~32 VDC	10~32 VDC	10~32 VDC	+15V Passive PoE
Power Consumption	< 7W	< 7W	< 7W	< 7W	< 7W	< 7W	< 7W	< 12W

Mechanical Construction

Dimensions (W x H x D)	60 x 110 x 106 mm	60 x 110 x 106 mm	60 x 110 x 106 mm	60 x 110 x 106 mm	60 x 110 x 106 mm	60 x 110 x 106 mm	259 x 250 x 75 mm	170 x 225 x 89 mm
Weight	451 g (0.9943 lb)	452 g (0.9965 lb)	451 g (0.9943 lb)	452 g (0.9965 lb)	452 g (0.9965 lb)	391 g (0.8620 lb)	2249.8 g (4.9599 lb)	433 g (0.9546 lb)
Installation	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	Pole Mount/Wall Mount (Optional)	Pole Mount/Wall Mount (Optional)
Enclosure	IP40 Aluminum Case	IP40 Aluminum Case	IP40 Aluminum Case	IP40 Aluminum Case	IP40 Aluminum Case	IP40 Aluminum Case	IP68 Protection	IP65 Protection

Software	<p>Network Protocols: IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy, *Modbus, VRRP, OSPF, Message Queue Telemetry Transport (MQTT Broker), BGP</p>	<p>Routing/Firewall: NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2</p>	<p>VPN Security: <ul style="list-style-type: none"> OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256) GRE PPTP L2TP </p>	<p>Wireless Connectivity: <ul style="list-style-type: none"> Two SIM for failover/roaming over/ back up Two SIM data usage control Seamless multi WAN connections switch </p>	<p>Alarm: *DI, *DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail</p> <p>Others: DDNS, QoS, Virtual COM, UPnP</p>	<p>▲ Management Software <ul style="list-style-type: none"> Web GUI for remote and local management, CLI Dual Image firmware upgrade by Web GUI Syslog monitor SNMP, TR069 Remote management via SSH v2, HTTPS Local management via Telnet, SSH v2, HTTP/HTTPS </p>	<ul style="list-style-type: none"> Network Protocols: IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, Static IP, SNTP, DNS Proxy, BGP Routing/Firewall: NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, IPS VPN Security: IPSec, GRE, PPTP, L2TP Alarm: SMS, VPN/WAN Disconnect, SNMP Trap, E-mail Others: DDNS, QoS, UPnP
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