

datamax LoRa

Featuring wide ranging connectivity & intelligent track, control & data transmission using LoRa wireless technology - the Datamax LoRa Ethernet router with RS232, WiFi & LoRa functionality is the right choice for your M2M application.

Encased in a robust metal casing, the powerful 4G router has diverse connectivity options including LoRa, WiFi, & RS232 to manage your M2M applications over distance as well as high speed. The WiFi connectivity gives this router local wireless capabilities creating an effective industrial hotspot.

Failover between 4G, and fixed-wire WAN or WiFi, makes configuring redundant links easy. Advance these benefits further with LoRa terminal for an all-rounded & intelligent M2M function in LoRa network.

Key Features

- LTE - CAT4 - Band 28 Supported
- Max. 150 Mbps Downlink, Max. 50 Mbps Uplink
- 4 band DC-HSPA+
- LoRa connectivity within Australian ISM Band
- Inbuilt Wi-Fi Transceiver
- 4 Port Ethernet Connectivity
- Support WAN port and PPPOE protocol that can be connected to ADSL directly.
- Support low power consumption mode, including sleep mode, scheduled online/Offline mode.

Accessories

- 12 VDC Power Supply
- Alternative external antenna options
- LoRa Terminal
- See RFI/Maxon for other accessories



Agriculture



Wind
Farms



Waste
Management



Irrigation



Fleet
Management



Health
Monitoring



Air Quality
Monitoring



Smart Sensor
Technology

Frequency Bands

FDD LTE: B1(2100MHz), B2(1900MHz), B3(1800MHz), B5(850MHz), B7(2600MHz), B8(900MHz), B20(800MHz), B28(700MHz)

UMTS: B1(2100MHz), B2(1900MHz), B5(850MHz), B8(900MHz)

Features

- Rugged and robust form factor
- LoRa connectivity within Australian ISM Band
- Inbuilt Wi-Fi Transceiver
- 4x Ethernet Ports
- Web-based management
- Supports VPN server / client (PPTP, L2TP, OpenVPN, IPSEC, GRE)
- Supports DHCP server / client, firewall, NAT DMZ Host, URL Filtering, QOS, Traffic statistics, Realtime link statistics
- Supports RS232 or RS484/RS422
- Wide ranging input power
- Supports DDNS
- Supports TCP/IP, UDP, ICMP, SMTP*, HTTP, POP3* QICQ*, TELNET, FTP*, SNMP etc **optional*
- Auto recovery including online/offline detect and auto redial
- Supports Firmware over the Air (FOTA) functionality

Connections

- Power - Barrel connector (2.5mm)
- 4x Ethernet Connection RJ45
- 1x RS232 connector (RJ45)
- 1x SIM card
- 1x WAN Connection RJ45
- LoRa Antenna connector: SMA Female
- Wi-Fi Antenna connector: SMA male
- Antenna connector: SMA Female
- Reset button

Wi-Fi

- IEEE802.11 b/g (54Mbps (max))
- IEEE802.11 n (300Mbps (max))
- Security: WEP, WPA, WPA2, etc (WPS optional)
- TX Power: 20dBm(n), 24dBm(g), 26dBm(b)
- RX sensitivity <-72dBm @ 54Mbps

Dimensions / Mounting / Weight

- Iron Housing providing IP30 protection
- 207 X135 X28 mm
- Weight: 790g
- Side Mount Brackets

Data

- LTE FDD: Download speed Max. 150Mbps, Upload speed Max. 50Mbps
- DC-HSPA+: Download speed Max. 42Mbps, Upload speed Max. 5.76Mbps
- HSPA+: Download speed Max. 21Mbps, Upload speed Max. 5.76Mbps
- HSDPA: Download speed Max. 7.2Mbps, HSUPA, Upload speed Max. 5.76Mbps

LoRa Terminal (As Accessory)

- Support hardware and software WDT
- Supports RS232 & RS485
- Max Transmission Distance of 8 KM
- Module Supports Over-the-Air Updates
- -148dBm Ultra-High Receiver Sensitivity
- 200 plus nodes within a network
- Total 5 I/O Channels, 3 analog & 2 digital & 2 channels pulse compatible
- Relay routing and terminal device functionality

Environmental Specifications

- Normal Operation Temperature -35 to 75°C
- Storage Temperature -40 to 85°C
- Humidity: 5% ~ 95%

LED

- Power
- System
- WLAN
- Online
- Local network
- Signal strength
- LoRa
- Wi-Fi

Power

- 5 ~ 36 V DC (Reverse polarity protection)
- Standby 292~342mA @12VDC
- Communication 355~592mA @12VDC
- Schedule Shutdown 2.57 ~4.2mA @12 VDC