

multimax

HSPA+ Dual Port M2M Router | MA-2040

CHOOSE WELL...
CHOOSE WISELY...
CHOOSE MAXON...

With multiple connectivity options, the Multimax MA-2040 is a rugged 3G router suitable for a diverse range of industrial M2M applications.

The Multimax features dual-SIM capabilities as well two Ethernet ports, which provides advanced redundancy functionality. The price point of this device will astound you with its standard menu of features and capabilities when compared with similar products available in the market.

Suitable for applications from video streaming to expandable device monitoring, the Multimax is an adaptable, multi-purpose device for all your data needs.



Key Features

- 21 Mbps Downlink, 5.76 Mbps Uplink
- Multi-network, Dual-SIM redundancy
- Supports 3G; 4G also available
- 2 x Configurable Ethernet ports (LAN+LAN or LAN+WAN backup)
- 1 x RS232, 1 x RS485, 1 x USB 2.0 host
- 2 x digital inputs, 2 x digital outputs 6 x LEDs
- 2 x SMA Antenna (Main and Diversity)
- Robust metal enclosure with flexible mounting options
- Supports Modbus/RTU to Modbus/TCP gateway
- Wide Input Voltage Range (9-60V)
- Features coming soon: GPS, Wi-Fi

Applications



CCTV Monitoring and security systems



Vending Machine Management



Traffic Signals & monitoring



Remote Monitoring Power and Substations



Monitor Security systems and alarms



Access current and stored data logged from sensors



Plant & field monitoring, Automation



ATMS and POS Systems



3G Communications Device



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Frequency Bands

- WCDMA/HSDPA 850MHz, 900MHz, 1900MHz, 2100MHz
- GSM/GPRS/EDGE 850MHz, 900MHz, 1800MHz and 1900MHz
- HSPA+ 850MHz, 900MHz, 1700MHz, 1900MHz and 2100MHz



Metering



Rail



Road Signs



Security



Transport



Vending Machines

General Features

- HSPA+: 850/900/1700/1900/2100 or 900/2100 or 850/1900 MHz optional, DL/UL 14.4/5.76 Mbps, fallback to 2G
- Standards: GSM/GPRS/EDGE/UMTS/HSPA
- GPRS/EDGE: 850/900/1800/1900 MHz
- SIM: 2 x (3V & 1.8V)
- Antenna Interface: SMA Female, 50 ohms impedance
- Number of Ports: 2 x 10/100 Mbps, 2 LANs or 1 LAN 1 WAN
- Magnet Isolation Protection: 1.5KV

Network Features

- Network protocols: PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, DMZ, RIP v1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, SSH, SNMP, Telnet
- LinkGo: PPP LCP Echo/Reply, ICMP to keep always online
- VPN tunnel: IPSec/OpenVPN/PPTP/L2TP, GRE
- Firewall: SPI, anti-DoS, Filter, Access Control
- Management: Web, CLI, Telnet, SNMP v1/v2/v3
- Serial Port: TCP client/server, UDP, Virtual COM

Serial Interface (Phoenix)

- Number of Ports: 1 x RS-232, 1 x RS-485
- ESD Protection: 15KV
- Parameters: 8E1, 8O1, 8N1, 8N2, 7E2, 7O2, 7N2, 7E1
- Baud Rate: 50bps to 115200bps
- Flow Control: RTS/CTS, XON/XOFF
- RS-232: TxD, RxD, RTS, CTS, GND
- RS-485: Data+ (A), Data- (B), GND
- Interface: 3.5mm terminal block with lock

Power Supply

- Power Supply Interface: 5mm terminal block with lock
- Input Voltage: 9 to 60 VDC
- Power Consumption: Idle: 100 mA @ 12
- Data Link: 500 to 1000 mA (peak) @ 12 V

Environmental Specifications

- Operating Temperature & Humidity: -25 to 65°C, 5 to 95% RH
- Storage Temperature: -40 to 85°C

System

- LED Indicators: 6 indicators, RUN, PPP, USR, RSSI, NET, SIM
- Built-in RTC, Watchdog, Timer
- Expansion: 1 x USB 2.0 host up to 480 Mbps

LED

- Power
- RSSI
- PPP
- USR
- NET
- SIM

Digital Input

- Type: 2 x DI, Dry Contact
- Dry Contact: On: short to GND, Off: open
- Isolation: 3K VDC or 2K Vrms
- Digital Filtering Time Interval: Software selectable
- Over-voltage Protection: 36 VDC
- Interface: 3.5mm terminal block with lock

Digital Output

- Type: 2 x DO, Sink
- Over-voltage Protection: 40 VDC
- Over-current Protection: 0.5 A
- Isolation: 3K VDC or 2K Vrms
- Interface: 3.5mm terminal block with lock

Physical Characteristics

- Housing & Weight: Metal, 500g
- Dimension: (L x W x H): 125 x 108 x 45 mm



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