Mobility Solutions
IoT Connectivity: Manage - Monitor - Control

Typical Applications

Application & market segments:
• Process automation & energy management
• Vending machine & ATM
• Fixed asset remote access
• Failover

A must for:
• Remote access of assets
• Industrial or harsh environment
• Edge intelligence requirement

Customer Guide

Why you need a modem:
• Serial or USB interface
• Low power consumption
• Small and Industrial package
• Edge intelligence requirement

Why you need a router:
• Ethernet & serial interface
• High bandwidth usage
• Small and industrial package
• Edge computing & Linux programming

M Series
Industrial Modem
M Series modems are designed to provide connectivity across a broad range of M2M and IoT applications. They allow Internet connectivity via serial port to PLCs, Meters, Vending Machines. They help transport data from any device to data control servers, allowing businesses to utilize such benefits as real-time data monitoring, management, and control.

Key Features
• Dial-up, TCP/UDP permanent client/server or on-demand client with two TCP/UDP sockets for failover
• Network connectivity watchdog
• Support for concatenated SMS
• Configurable text and recipients upon Last Gasp
• DoTA via user’s HTTP server or D2Sphere™
• Configuration via Workbench through RS-232 or, when available, USB; also via SMS, Telnet or D2Sphere™

E Series
Industrial IoT Gateway
With cellular LTE Cat1 to Cat4, wired WAN, LAN and Wi-Fi connectivity, the E series router is a highly versatile, reliable and rugged router designed for mission-critical enterprise applications requiring faultless connectivity.

Key Features
• Web-based user interface, set-up wizard, console log viewer, save/load configuration, NTP, SMS/OTA remote configuration, TR-069 capable
• Redundancy: Ethernet, cellular, Wi-Fi - configurable as failover or load-balancing
• Network connectivity watchdog (configurable), internal application watchdog
• Wi-Fi Client or Access Point, multiple SSID, WEP, WPA, WPA-PSK/WPA2-PSK security modes
• Security Zone-based firewall, VLAN, DMZ, HTTPS local and remote connection, SIM PIN
• Real time processor load and interface (WAN/LAN/Wi-Fi), traffic analysis, ICMP, trace-route
• Routing DHCP, static routing, port-forwarding, traffic
• Routing, static/dynamic DNS, DNS proxy, NAT, STP
• VPN PPTP client, L2TP, OpenVPN client/server/passthrough, GRE, IPsec
• Industrial Protocols: Modbus RTU to TCP support, Modbus master

Introducing D2Sphere™, a device management platform that monitors, administrates, and operates devices over the air. D2Sphere™ is an essential tool to manage LMS devices for M2M and IoT applications. It is a highly scalable IoT Platform which reduces risk, complexity, and cost while improving the time-to-market for IoT Projects.
M Series
Industrial Modem

Hardware Specification:
- 60 x 60 x 21.7 mm, Approx. 80g.
- Extended Temp. Range -30°C to +70°C
- RAM: 40 Flash 256 MB
- USB Type-C
- Power Supply 6 ~ 36 VDC
- RS232 on Sub-D 9 pin connector
- 2 x versatile I/Os (2-way: analog input / digital output)
- Sim 2FF SIM 1.8 V / 3.0 V

Network:
- M111 2G
- M113 NB-IoT / LTE-M1
- M114 LTE Cat.1
- M115 3G

Available Accessories:
- Power Supply
- Power Cable
- USB Cable
- Cellular Antenna
- DIN Rail Clip
- Snap Cap™ - RS485 Adapter

E Series
Industrial IoT Gateway

E210

Hardware Specification:
- 8 V dc ~ 32 V dc power section with Slow Start and absorption of 2G current bursts
- -20°C ~ +60°C operating temperature range
- 256 Mbit SPI [NOR] Flash memory, 1 Gbit DDR2 SDRAM
- Dedicated RTC with an approx. 100-day data retention period, courtesy of a 15 mWh battery
- RS-232 operation, via a 9-pin sub-D connector
- 2 x Ethernet Port (LAN port / WAN configurable as LAN port)
- 7 x LED indicators
- 2 x digital I/Os (digital input / output)
- Dual SIM operation, 2FF
- Micro SD card holder
- Wi-Fi 1T1R at 300 Mbps

Network:
- E214 LTE Cat1 - 10 Mbit/s down, 5 Mbit/s up
- E215 3G
- E218 LTE Cat4 - 150 Mbit/s down, 50 Mbit/s up

Available Accessories:
- Power Supply
- Power Cable
- Lan Cable
- Cellular Antenna
- Wi-FiAntenna
- DIN clip
- Snap Cap™ - RS485 Adapter

E200

Hardware Specification:
- 'Roadworthy' 10.8 V dc ~ 60 V dc power section
- Extended Temp. Range -30°C to +70°C
- 256 Mbit SPI [NOR] Flash memory, 512 Mbit DDR2 SDRAM
- Last Gasp
- Half- and full-duplex, isolated, RS-485
- 2 x Ethernet Port (LAN port / WAN configurable as LAN port)
- Class 3 PD-PoE
- 6 x LED indicators
- 2 x digital I/Os (digital input / output)
- SIM 2FF 1.8V / 3.0V
- Independent RTC / watchdog hardware
- Wi-Fi 2T2R at 300 Mbps
- GNSS

Network:
- E220NC Non-Cellular
- E224 LTE Cat1 - 10 Mbit/s down, 5 Mbit/s up
- E225 3G
- E228 LTE Cat4 - 150 Mbit/s down, 50 Mbit/s up

Available Accessories:
- Power Supply
- Power Cable
- Lan Cable
- Cellular Antenna
- GPS Antenna
- Wi-Fi Antenna
- DIN clip

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