Product Overview

Xentino MR400/MR401 series **4G/LTE Cellular Routers** are highly reliable and secure wireless communications gateway designed for industrial networking. It supports multi-band connectivity including FDD/TDD LTE, WCDMA and GSM for a wide range of applications and vertical machine-to-machine (M2M) markets. To enhance reliability, **MR400/MR401** series are equipped with dual SIM that supports failover and roaming over to ensure uninterrupted connectivity for mission-critical cellular communications.

With flexible LAN/WAN Ethernet options, **MR400/MR401** series allow you to customize your professional applications in diverse environments. It also provides enterprise-grade software features, such as Quality of Service (QoS) for traffic prioritization, IPSec, OpenVPN, Firewall security and etc. The device are administrated via web GUI, Telnet, SSH v2 and HTTP/HTTPS.

Built for secure and uninterrupted operation in harsh environments, **MR400/MR401** series support extended operating temperature from -20 to +70°C and a flexible input voltage range of 10-32V DC. *Xentino MR400/MR401* series are ideal cellular communications solution for heavy industrial use.

Key Features

- Highly reliable and secure for mission-critical cellular communications
- Provide flexible options to configure LAN/ WAN ports
- Support multi-band connectivity with FDD LTE/ TDD LTE/ WCDMA/ GSM/ LTE Cat4
- Built-in dual SIM for network redundancy
- Integrated dual detachable antenna against radio interference
- LED indicators for connection and data transmission status
- Industrial rated from -20 to +70°C for use in harsh environments
- Metal Housing with IP40 industrial grade protection
- IPv6/IPv4 dual stack and all applications are IPv6 ready
- Support various serial communication protocols for rich connectivity
- Enhance security and encryption for authentication and transmission

Ordering Information

Model	Description
MR400	Industrial 4G LTE Cellular Router (1 x WAN, 1 x LAN, 2 x RS232, 1 x RS485, 2 x DI, 1 x DO, 2 x SIM Card Slots, -20 ~ +70°C)
MR401	Industrial 4G LTE Cellular Router (1 x WAN, 3 x LANs, 2 x RS232, 1 x RS485, 2 x DI, 1 x DO, 2 x SIM Card Slots, -20 ~ +70°C)

Specifications

LTE Interface
- FDD LTE: B1/B3/B5/B7/B8/B20
- TDD LTE: B38/B40/B41
- WCDMA: B1/B5/B8
- GSM: 900/1800 MHz
- LTE Cat4

Processor & I/O Interface
- High performance 528 MHz CPU with 512 Mbytes of DDR3 memory
- 2 x SIM Card Slots
- 1 x LAN 10/100 Mbps Ethernet port (Model: **MR400**)
- 3 x LAN 10/100 Mbps Ethernet ports (Model: **MR401**)
- 1 x WAN 10/100 Mbps Ethernet port
- Reset Button
- Console: 1 x RS232 (9-pin Sub-D)
- 2 x SMA connectors for detachable LTE antenna
- 1 x GPS detachable antenna (Optional)
- 1 x RS485 (D+/D-)
- 1 x RS232 (TXD/RXD)
- 2 x DI, 1 x DO (Alarm +/-)

Physical Characteristics
- Enclosure：Metal Shell
- Housing：IP40 Protection
- Dimensions (W x H x D)：60 x 110 x 106 mm
- Weight：451 g (0.9943 lb) / 452 g (0.9965 lb) (Model:**MR400/MR401**)
- Installation：DIN Rail (Default) or Wall Mount (Optional)

LED Display
- 1 x System status LED (Green)
- 1 x VPN status LED (Green)
- 1 x SIM1 status LED (Green)
- 1 x SIM2 status LED (Green)
- Ethernet status LEDs (Green for LINK/ACT, Yellow for SPEED)
- 2 x Mobile connection strength LEDs (Green)

Power Supply
- Power Consumption 7 Watts(Max)
- Power Input 10 ~ 32V DC

MTBF (mean time between failures)
- **MR400** : 155,899 hrs   (MIL-HDBK-217-FN2)
- **MR401** : 148,930 hrs   (MIL-HDBK-217-FN2)

Software
- **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
- **Routing/Firewall:**
  NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2
- **VPN:**
  OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP
- **Wireless Connectivity:**
  Two SIM for failover/ roaming over/ back up
  Two SIM data usage control
  Seamless multi WAN connections switch
- **Others:**
  DDNS, QoS, Virtual COM, UPnP
- **Alarm:**
  DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail

Management Software
- 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

Environment
- Operating Temperature   -20 ~ +70°C
- Storage Temperature   -40 ~ +85°C
- Ambient Relative Humidity 10 ~ 95% (non-condensing)
- Humidity   0 ~ 95% (non-condensing)

Standards and Certifications
- **EMC**：CE, FCC
- **EMI**：EN 55032 Class A, FCC Part 15 Subpart B Class A
- **EMS**：EN 55024 / EN 61000-4-2 (ESD) Level 3 / EN 61000-4-3 (RS) Level 3 / EN 61000-4-4 (EFT) Level 4 / EN 61000-4-5 (Surge) Level 3 / EN 61000-4-6 (CS) Level 3 / EN 61000-4-8 (PFMF) Level 4 / EN 61000-4-11 / EN 61000-6-2 (Industrial) / EN 61000-6-4 (Industrial)
- **Rail Traffic**：EN50121-4
- **Vibration**：IEC60068-2-6
- **Safety :** EN60950-1
- **Highly Accelerated Life Test (HALT)**

Left Side View   Front View   Right Side View   Rear View   Top & Bottom View