Product Overview

Xentino **MR144M** LTE/4G Series Industrial Router, integrating **LTE/4G**, **WIFI LAN**, Routing, Switching, Security and other network application technologies, compatible with **4G/3.5G/3G/2.5G** network, configuring **5pcs 10/100/1000M** ethernet ports (**each ports can be configured LAN/WAN**) Supports 802.11 **a/g/n WIFI**

Flagship configuration, **VPN** link and industrial-grade design enable it to build high-speed and stable wire/wireless communication network easily. Supports digital data acquisition, provide users with wireless long-distance data transmission function by using public **LTE/4G/3G** network .

Benefit from its industrial-grade design and strict selection of components, the device can withstand high & low temperature, work stably in complex operation condition such as outdoor and in moving vehicle, provide users with a highly reliable, cost-effective wireless security access network solutions. It is already widely applied in many scenarios such as intelligent manufacturing, smart city, intelligent transportation, energy management, security, self-service terminals, smart healthcare and the next generation of the IoT field.

Application Fields

- ➤ **Electricity Management**: remote automatic meter reading, real-time monitoring and alarm of voltage and current data, city power grid and street lamp control;
- ➤ **Security**: video surveillance, remote access control system monitoring, anti-theft device alarm;
- ➤ **Energy Management**: data acquisition in coal, natural gas and oil fields, heating system regulation;
- ➤ **Traffic**: monitoring and dispatching system of motor vehicle and bank armored vehicle, license plate capture monitoring system, vehicle violation monitoring;
- ➤ **Environmental protection**: real-time data acquisition and automatic control of gas pressure regulating station, real-time monitoring and maintenance of tap water, sewage pipe, lock gate, pump station and water plant;
- ➤ **Finance**: ATM and server room monitoring, mobile securities trading and information inquiry, POS system application;
- ➤ **Utility**: water level flood control monitoring, natural disaster prediction system;
- ➤ Media: mobile advertising automatic download system, wireless streaming media advertising management system;
- ➤ **Weather**: temperature and humidity data remote acquisition and transmission, weather prediction;

Main Features

- Supports **5x10/100/1000M** ethernet ports, WAN / LAN can be configured freely
- **SIM** Card Slot compatible **LTE/4G/3.5G/3G/2.5G** network
- Supports multiple protocols: TCP/IP, UDP, HTTP, TELNET, ICMP, DHCP, **PPPOE**, DNS, DDNS, etc
- Supports static routes and **RIP / OSPF** routing protocols
- Supports **MPLS** service carrying, processing, and forwarding, and can be flexibly deployed in various comprehensive carrying solution scenarios
- Supports **MPLS LDP** dynamic protocol
- Supports **L2 VPN** (PWE3 & VPLS) and **L3 VPN**
- Supports **ACL** and NAT functions
- Supports firewall, packet filtering, and URL filtering

- Supports QoS protocols such as priority mapping, traffic policing, traffic shaping, congestion management, and rate limiting
- Supports the **QoS** mechanism that provides hierarchical scheduling based on multi-level queues and distinguishes services and users, and optimizes the transmission of video streams
- Supports VPN functions such as **GRE, L2TP, IPSEC, PPTP, EOIP**
- Supports **802.1Q VLAN** and **QinQ** function
- Supports link detection functions such as DLDP, and can quickly switch to the backup link based on the detection result
- Supports **LOG**ging
- Supports port mirroring
- Supports CLI, WEB, and **SNMP/TR069** centralized NMS
- Supports version upgrade and rollback

Model	MR148W	MR144H	MR144M
Fixed ports	8 x 10/100/1000M ethernet ports 2 x 1000M SFP ports 1 x Console port 1 x SIM Card Slot port 3 x WiFi antenna ports 2 x 4G antenna ports 1 x GPS antenna port (optional) 1 x FUNC button 1 x USB port 1 x standard 3-core power port	5 x 10/100/1000M ethernet ports 1 x 100/1000M SFP port 2 x SIM Card Slot ports 2 x 4G antenna ports 2 x WIFI antenna ports 1 x GPS antenna port (optional) 1 x USB2.0 port 1 x FUNCbutton 1 x RS485/RS232 Port 1 x standard 3-core power port	5 x 10/100/1000M ethernet ports 1 x SIM Card Slot port 2 x WiFi antenna ports 2 x 4G antenna ports 1 x RS232/RS485 port (alternative) 1 x FUNC button 1 x USB port 1 x standard 3-core power port
Network Type	Support entire network ： TDD-LTE, FDD-LTE, TD-SCDMA, UMTS, EVDO, EDGE, CDMA1x, GPRS		
WIFI	802.11 a/n/ac, 866Mbps 3*3 MIMO	802.11 b/g/n, 300Mbps, dual tunnels	802.11 b/g/n, 300Mbps, dual tunnels
Dimension	271*154*33mm (excluding antenna & pendant)	181*134*31mm (excluding antenna &pendant)	
Power Consumption	≤18W	≤15W	
Power Input	DC12V 1.5A		
Housing	High strength metal housing		
IP Degree	IP30		
Operating Humidity	10～95%RH		
Operating Temp.	-20～+75℃	-40～+85℃	
Storage Temp.	-40～+85°C		
GPON ONU	Supported when GPON optical module is inserted in the optical port		-
Mounting	Desktop, wall-mounted, din-rail		