

### Product Overview

Xentino **MR148W** LTE/4G Series Industrial Fiber Router/Gateway, integrating **LTE/4G**, WIFI LAN, Routing, Switching, Security and other network application technologies, compatible with 4G/3.5G/3G/2.5G network, configuring **8x10/100/1000M** ethernet ports and **2x100/1000M SFP** optical port, Supports direct docking with **GPON OLT**, Supports 802.11 a/g/n Wireless LAN.

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 **8x10/100/1000M** ethernet ports, WAN / LAN can be configured freely
- Supports **2x100/1000M** SFP optical port, which provides direct access to the optical network and enables full switching with ethernet ports. can also directly insert the GPON module to interconnect with **GPON OLT** as an ONU
- **Single SIM** 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 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 firewall, packet filtering, and URL filtering
- 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 **LOGging**
- Supports port mirroring
- Supports CLI, WEB, and **SNMP/TR069** centralized NMS
- Supports version upgrade and rollback

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