

## MX944-1D Explosion-Proof Ex d IIC T6 4G/5G Router



### Features

- Intelligent anti-offline, support online detection, online maintenance, automatic redialing when disconnected to ensure the online status
- Support network link backup, seamlessly switch to wireless network when wired disconnection. It can automatically detect wired recovery
- Cloud remote platform management, remote upgrade and configuration
- Support VPN security tunnel function, including PPTP, L2TP
- Support 2.4G wireless client, wireless AP function [optional]
- Complete and robust router functions, supporting multiple Internet access methods: dynamic IP, static IP, PPPoE
- Support IPTABLES firewall, secure network protocol
- Support dynamic DDNS: support dyndns and other service providers
- Easy-to-use CONSOLE and SYSLOG system diagnosis and debugging functions
- Supports serial port local TFTP, web software upgrade
- Explosion-proof grade: Ex d IIC T6 Gb/Ex tD A21 IP68 T80°C
- Industrial-grade power supply: wide-voltage power supply design, the power supply range is DC6-36V/3A optional, built-in power reverse protection
- Professional-grade MIPS\_880Mhz dual-core high-performance embedded processing with 32 KB D-Cache, cache data, speed up high-speed data access and 64 KB I-Cache, high-speed instruction cache, strengthen instruction processing speed
- Industrial-grade wireless CPE: using industrial-grade wireless modules, strong anti-interference and stable transmission
- Using quality industrial-grade components for production
- UIM/SIM card ESD protection: 1.8V/3V standard push rod user card interface, built-in 15KV ESD protection
- Independent hardware watchdog, effectively guarantee the stable operation of the system

### Description

MX944-1D adopts industrial-grade material design & technology to ensure robust communication under extreme conditions and strong interference conditions. It is a base station that supports multiple Internet access such as Ethernet/WIFI client/4G/5G/NB-IoT with a variety of local data access 5G/1000M Ethernet and full-stack smart protocol IoT gateway devices.

The MX944-1D explosion-proof base station adopts a high-performance industrial-grade MIPS communication processor and an embedded operating system as a software support platform.

The system integrates a full range of communication protocols from the logical link layer to the application layer, and supports VPN (PPTP, L2TP), IPTABLE firewall, static and dynamic routing, PPPOE, DHCP Server and DHCP Client, DMZ host, WEB configuration, support APN/VPDN, etc.

It supports automatic dial-up after power-on, automatic maintenance of communication links, and hardware-level watchdog WDT protection to ensure that the device is always online.

### Details

NETWORK INTERCONNECTION	network access	APN, VPDN
	access authentication	CHAP/PAP/MS-CHAP/MS-CHAP V2
	network standard	Support NR, LTE, WCDMA(HSPA+), EDGE, GPRS
	LAN protocol	Support ARP, Ethernet
	WAN protocol	Support Static IP, DHCP, PPPoE

NETWORK PROTOCOL	IP application	Support DHCP server/client, domain name DDNS, Telnet, SSH, HTTP
	IP routing	Support static routing, IGMP Proxy
CYBER SECURITY	firewall	Stateful Packet Inspection (SPI), protection against Denial of Service (DoS) attacks
		Filter Multicast/Ping Probe Packets, Access Control List (ACL)
		Support NAT, PAT, DMZ, port mapping, virtual server
	Data Security	Support L2TP, PPTP
other technologies	Support ARP protection attack, DMZ (demilitarized zone), MAC address filtering	
RELIABILITY	online detection	Send heartbeat packet detection, disconnect automatically
	Embedded watchdog	self-inspection, fault self-repair
WLAN	Protocol	IEEE 802.11b/g/n
	safety	Open system, shared key, WPA/WPA2 authentication, WEP/TKIP/AES encryption
	Operating mode	AP, Client working mode
INTELLIGENT	DTU	Support TCP, UDP transparent transmission mode, TCP Server mode
NETWORK MANAGEMENT	Configuration	Support local or remote HTTP, Telnet, SSH methods
	Upgrade	Support local or remote WEB, TFTP
	log	Support local system log
	SMS	Status checking, restart
WIRELESS	WIFI	Working frequency band: 2.4GHz
		Channel selection: channel 1 - 13; 2.4GHz
		Wireless mode optional: 11b/g/n, 11bg mixed, 11bgn mixed(Def) 2.4G
		Speed: 300Mbps (Max)
		2.4G Power: 14dB (±2dB) EVM: 35dB (±2dB) HT20 HT40
	Connection	Up to 128 users can access at the same time
	Safety	Supports 64/128-bit WEP encryption Support WPA-PSK/WPA2-PSK authentication type Support TKIP, CCMP/AES encryption algorithm
	LTE module	Working frequency band: 1.8G: 1785MHz~1805MHz
		Channel range: 1.8G: Band 59, 54200~54399, Band 62, 65200~65399
		Bandwidth supports 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
		Maximum transmit power: Private network frequency band: +23±2dBm
		Secondary amplification: support external power amplifier
Transmission distance	Outdoor open area coverage up to 100 meters	

HARDWARE	CPU	MIPS CPU, MT7621DAT dual core frequency 880Mhz
	storage	128Mbits SPI Flash
	Memory	1024Mbits DDR3 [built-in chip]
APPEARANCE & WORKING CONDITION	Dimensions	389x312x152mm
	Operating temperature	-40°C~80°C/-40~176 °F
	Storage temperature	-40°C~85°C/-40~185 °F
	Humidity	95% no condensation
CONNECTOR	WAN port (LAN1)	1x 10/100/1000M self-adaptive WAN port, built-in isolation, support automatic flip (Auto MDI/MDIX), LAN1 port in non-wired routing mode
	LAN port (LAN2)	1x 10/100/1000M self-adaptive LAN port, support automatic flip (Auto MDI/MDIX); built-in 1.5KV electromagnetic isolation protection
	USB port	Built-in USB3.0 port
	indicator	2 LAN port lights (at the network cable port position)
	Antenna Connector	Standard 4 LTE antennas, 2 WiFi antennas
	USIM card Connector	1 SIM card holder (built-in standard MicroSIM card holder)
	Power Connector	Standard DC 6V-36V /3A
	Power consumption	20W