# 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℃
- 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/NBIoT 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.

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## Software 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 |

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## Specification

| | | |
|---|---|---|
| **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 | -40ºC~80ºC/-40~176℉ |
| | Storage temperature | -40ºC~85ºC/-40~185℉ |
| | 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) |

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| CONNECTOR | 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 |

## Certification

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