MX834-1D
Explosion-Proof 4G/5G Router

Features

- Intelligent anti-offline, support online detection, online maintenance, and automatic offline redial to ensure that the device is long-term online
- Support network link backup, seamlessly switch to the wireless network when wired connection offline with automatically detect wired recovery
- Cloud remote platform management, remote upgrade and remote configuration
- Support VPN security tunnel function, including PPTP, L2TP
- Support 4G wireless client, wireless AP function [optional]
- Complete router functions, support multiple Internet access: dynamic IP, static IP, PPPoE
- Support IPTABLES firewall, secure network protocol
- Support dynamic DDNS: support dyndns and various other domain name service providers
- Easy-to-use CONSOLE and SYSLOG system diagnosis and debugging functions
- Support serial port local TFTP, web software upgrade
- Explosion-proof grade: Ex d IIB T6 Gb/Ex tD A21 IP68 T80℃
- Industrial-grade power supply: wide-voltage power supply design, power supply adaptability range is DC6-36V/3A optional, built-in power reverse protection
- Professional-grade MIPS_880Mhz dual-core high-performance embedded processing; with 32KB
- D-Cache, cache data, speed up high-speed data access; with 64 KB I-Cache, high-speed instruction cache, enhanced instruction processing speed
- Industrial-grade wireless CPE: using industrial-grade wireless modules, strong anti-interference, stable transmission
- Produced with strictly chosen industrial-grade components
- UIM/SIM card ESD protection: 8V/3V Pushrod Styles user card connector, built-in 15KV ESD protection
- Independent hardware watchdog, effectively guarantee the stable operation of the system

Description

MX834-1D Explosion-Proof 4G/5G Router uses industrial-grade materials, design and technology to ensure stable communication under extreme conditions and strong interference conditions.

It is an IoT gateway device that supports multiple Internet access (Ethernet/WIFI client/4G/5G/NBIoT), and multiple local data access (5G/1000M Ethernet) full-stack smart protocols.

The device is manufactured with WAN communication, VPN tunnel, WIFI LAN and other functions to provide customers with open source codes for various device adaptations to achieve a seamless connection between wireless LAN, Ethernet, intelligent hardware and wireless WAN, for intelligent manufacturing, warehousing, logistics, transportation, electric power and other industries to provide professional wireless communication.

MX834-1D Explosion-Proof 4G/5G Router uses a high-performance industrial-grade MIPS communication processor, with the embedded operating system as a software support platform, the system integrates a full range of communication protocols from logical link layer to application layer and supports VPN (PPTP, L2TP) IPTABLE Firewall, static and dynamic routing, PPPOE, DHCP Server and DHCP ClientDMZ host, WEB configuration, support APN/VPDN, etc. Support power-on automatic dialling, automatic maintenance of communication links, and hardware-level watchdog WDT protection to ensure that the device is long-term 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

Specification

WIRELESS	**WIFI**	Working frequency band: 2.4GHz
		Channel selection: channel 1 - 13; 2.4GHz

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WIRELESS	WIFI	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: 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	300 * 204 * 87mm
	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 protect
	USB port	Built-in USB3.0 port
	indicator	2 LAN port lights (at the network cable port position)
	Antenna Connector	Standard 4 antenna ports
	USIM card Connector	1 SIM card holder (built-in standard MicroSIM card holder)
	Power Connector	Standard DC 6V-36V /3A
	Power consumption	20W

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