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MAIPU

MP1800-40 Datasheet

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Overview

MP1800-40 is brand new 4G wireless M2M gateway developed by Maipu, applicable to the data transmission service under the environment that goes against the wired network. Adopt the 2G/3G/4G high-speed wireless network as the data bearing network to provide the safe and high-speed wireless connection for the interconnection between the remote device and the sites. No matter where are you, your device can make use of 2G/3G/4G network to connect Internet or enterprise private network. MP1800 series wireless router meets the requirements of the industry users. It has the features of low power consumption, small dimension, and light weight. The operational temperature of the device is -25°C - +70°C. EMC is strict, so it is applicable to the strict and small industry environment and it is the ideal choice of the industry.



MP1800-40 4G M2M Gateway

MP1800-40 provides the upgradeable wireless network platform. You can adopt the in-built 2G/3G/4G module to share the 4G network provided by the local wireless carrier, making your device to connect the high-speed Internet or enterprise private network.

MP1800-40 has the VPN function and can be connected to the VPDN private channel of the enterprise based on 3G/4G network. Meanwhile, the device data can be transmitted in the secure IPSec tunnel, preventing the data from being accessed and tampered and providing the higher security for the application over the network.

MP1800-40 supports various secure and reliable management methods, providing the simple and easy-to-use remote network management and SNMP remote management.

MP1800-40 supports WIFI (802.11b/g/n), open network, WEP/WPA/WPA2 authentication algorithm, and Radius authentication.

MP1800-40 supports 3G/4G interface and Ethernet port as WAN port to connect Internet. 3G/4G interface and Ethernet ports can back up for each other. 3G/4G and Ethernet WAN ports both can serve as the master port. Ethernet WAN port supports static address, DHCP, and out-built ADSL access modes. The master/standby switching supports the failover is based on the link status and peer track IP.

Maipu offers the comprehensive network solution for the enterprise network application over 3G/4G and can provide high-performance center LNS router and the core security router supporting large-capacity IPSec access, as well as the matched 3G/4G device management system.

Key Features

- 3G/4G and Ethernet WAN dual-line WAN access
- Connect the terminal via WLAN and LAN
- Gigabit LAN Interfaces, higher performance
- Small capacity, low power consumption, low noise, wide work voltage and work temperature
- Support the security functions, such as firewall, IPSec, and SIM card binding
- Support E3G management, convenient for the remote maintenance

Specifications

Product Model	MP1800-40 Series
Memory	32MB
Flash	8MB
4G/3G/2G mode	1*SIM card based FDD-LTE/TDD-LTE/WCDMA/GSM
Ethernet port quantity	4*Gigabit Ethernet Interface
Wifi	802.11b/g/n
USB interface	One out-built USB interface
Chassis material	Metal
Installation	Indoor, communication machine/ATM machine with/without Security person, SME
Noise standard	No-fan design, no noise
Dimension	150mm×105mm×33mm
(W × D × H)	
Input voltage (DC)	9V-36V
Max. power	15W
Temperature	Long-term work temperature: -25°C-70°C
	Short-term work temperature: -30°C-70°C
	Storage temperature: -40°C-70°C
Humidity	Work humidity: 10%-95% non-condensing
	Storage humidity: 0%-95% non-condensing
Software features	
Basic functions	WCDMA, FDD-LTE, Four Gigabit Ethernet Interfaces
	Auto switch of master/slave line, switching detection based on link and IP
	WIFI supports 802.11b/g/n
VPDN networking	Support APN access; you can select carrier and set the user name, password and dialup string
	PIN code management
	Support CHAP/PAP/MS-CHAP/MS-CHAPV2
	Link keepalive function
	Dial on demand
	Support 2G, 3G,4G network, support auto switching
Management and maintenance	Support serial port, WEB, TELNET, and SSH configuration modes
	Support the function of importing and exporting the configuration, which is convenient for the batch configuration for the device.
	SYSLOG log function, log classification
	SNMP network management functions

	The management user needs to log in with password and can modify password.
	Support version upgrade
	With wireless network signal indicator, showing the spot signal.
Network functions	Support route and NAT work modes
	Network address translation (NAT), port address translation (PAT) and port mapping
	Support static routing and RIP dynamic routing protocol
	Support dynamic domain name binding (DDNS)
	Support VRRP
	Support QoS
Security functions	Support IPSEC VPN and GRE
	Support DES, 3DES, AES, Blowfish encryption lagorithm
	Status packet inspection (SPI), filter multicast, filter PING packets, prevent DoS attacks
	Support ACL
	Support IP+ MAC binding
	Provide the binding function of the unique ID code of the SIM card (IMSI)
Reliability	4G/3G network auto recovery
	Power off the device and recover automatically

Order Information

Host model	Description
MP1800-40F	4-port 1000M Ethernet Interfaces, external antenna with 3dbi gain, 1 SMA-J antenna interface for 3G/4G, 1 SMA-J antenna interface for Wi-Fi, support WCDMA/FDD-LTE , AC-12V DC power supply adaptor needed.
MP1800-40T	4-port 1000M Ethernet Interfaces, external antenna with 3dbi gain, 1 SMA-J antenna interface for 3G/4G, 1 SMA-J antenna interface for Wi-Fi, support WCDMA/FDD-TDD , AC-12V DC power supply adaptor needed.
PS-India-B	India standard power supply adaptor
PS-America-B	America standard power supply adaptor
PS-UK-B	UK standard power supply adaptor
PS-Europe-B	Europe standard power supply adaptor
PS-Europe S-B	Europe standard power supply adaptor, square interface.