MAIPU

MP1800X-40 LTE Edge Router Datasheet

Maipu Communication Technology Co., Ltd
No. 16, Jiuxing Avenue
Hi-Tech Park
Chengdu, Sichuan Province
P. R. China
610041
Tel: (86) 28-85148850, 85148041
Fax: (86) 28-85146848, 85148139
URL: http:// www.maipu.com
Mail: overseas@maipu.com

Contents

Overview

MP1800X-40 Series router developed by Maipu is one new-generation enterprise-class access router, applicable to enterprise and government branch offices. It integrates various modern network technologies, such as routing, switching, QoS, security, 3G/4G to provide the flexible access modes and secure and high-efficiency service experience for the users.

MP1800X-40 Series is the next generation version of MP801E&MP1800 series which was widely deployed in many countries. It includes three models which are MP1800X-40, MP1800X-40W and MP1800X-40E.

MP1800X-40 supports One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, dual SIM slots and single 3G/4G modem, 12V DC power input;

MP1800X-40W supports One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, dual SIM slots and single 3G/4G modem, Wi-Fi enable, 12V DC power input;

MP1800X-40E supports One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, dual SIM slots and Dual 3G/4G modem, 12V DC power input;

MP1800X-40 Access Router

MP1800X-40 Series 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 MPLS/VPLS, IPSec, GRE, L2TP tunnel, preventing the data from being accessed and tampered and providing the higher security for the application over the network.

MP1800X-40 Series supports various secure and reliable management methods, providing the simple and easy-to-use remote network management and TR069 & SNMP remote management.

MP1800X-40 Series 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 PPPOE 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 VPN access, as well as the matched 3G/4G device management system.

Highlights

➢ High speed WAN & LAN interfaces

➢ Higher performance upgrading

➢ Richer software features

➢ Advanced Secure service

➢ Rich Management modes

➢ Single or Dual 3G/4G WAN access

Product Features

- **High speed WAN & LAN interfaces**

MP1800X-40 series router upgrades all the interfaces from megabit to gigabit, it supports up 5*100/1000M Ethernet ports which can be configured as WAN or LAN, providing the high-speed terminal access capability and meeting the requirement of the user for integrating the routing and switch to construct the access network.

- **High performance**

MP1800X-40 series router reaches more than 300kpps forwarding performance and the configured ACL, QoS, VPN have small influence for the forwarding performance.

- **Rich software features**

MP1800X-40 provides rich software features; supports various application technologies, such as VPN, MPLS, multicast, ACL, MAC address binding, access control, bandwidth limitation, MSTP, and NAT; supports RSVP resource reserving protocol and CAR; provides hierarchical QoS function to ensure the high priority of the key services; support the queue management policies, such as FIFO, PQ, CQ, FQ, CBWFQ, and LLQ.

- **Advanced Secure service**

MP1800X-40 series router supports complete security features such as Port authentication technologies include 802.1x authentication and MAC address authentication, device authentication methods include RADIUS, and TACACS, VPN technologies include MPLS VPN, IPSec VPN, GRE VPN and L2TP VPN.

- **Rich Management modes**

MP1800X-40 series router supports complete management modes, including SNMPv1/v2c/v3, CLI, USB drive deployment, MIB, RMON, SYSLOG, TR069, Netflow, etc.

- **3G/4G Wireless link technology**

MP1800X-40 can flexible select the inbuilt 3G/4G module and outer USB interface, according to the customer requirements, support 3G WCDMA, support two 4G standards, that is, TD-LTE and FDD-LTE; meanwhile, cooperates with IPSec VPN to provide the secure and flexible wireless WAN access for the customer.

Product Specification

Hardware specification	MP1800X-40	MP1800X-40W	MP1800X-40E
CPU	1GHZ Dual Core	1GHZ Dual Core	1GHZ Dual Core
Memory (Default)	512M	512M	512M
Flash (Default)	128M	128M	128M
Dual IOS	Yes	Yes	Yes
Fixed interface	5 GE Ethernet (Note: can be configured as WAN or LAN)	5 GE Ethernet (Note: can be configured as WAN or LAN)	5 GE Ethernet (Note: can be configured as WAN or LAN)
3G/4G	dual SIM slots and single modem support TD-LTE, FDD-LTE, WCDMA, GSM	dual SIM slots and single modem support TD-LTE, FDD-LTE, WCDMA, GSM	dual SIM slots and dual modem support TD-LTE, FDD-LTE, WCDMA, GSM
WIFI	/	Yes	/
USB	1	1	1
Console port/AUX	1	1	1
antenna interface	2 SMA interface	2 SMA interface	2 SMA interface
4G Signal Strength LED	Support	Support	Support
Dimension (L x W x H)	145mm*100mm*38mm	145mm*100mm*38mm	145mm*100mm*38mm
Input voltage	12V DC	12V DC	12V DC
Power consumption	<20W	<20W	<20W
IP Security Level	IP30	IP30	IP30
Anti-Lighting Level(Power)	6KV	6KV	6KV
Working Temperature	Work temperature: - 20°C～60°C	Work temperature: - 20°C～60°C	Work temperature: - 20°C～60°C
Humidity	Work humidity: 5%-85%/RH	Work humidity: 5%-85%/RH	Work humidity: 5%-85%/RH
Software features			
Switch feature	Support VLAN, MSTP, LACP, FDB, Port Manage, LLDP, 802.1x, GVRP, LACP, SPAN		
IP and IP Services	Static route, Static routev6, RIP, RIPNG, OSPFv2, OSPFv3, BGP, BGP4+, ISIS, ISISv6, IRMP, DHCP Server, DHCP Client, DHCP Relay, DHCPv6, Policy Route, VBRP/VRRP, VRRPv3, BFD, BFDv6, VRF		
Multicast protocol	PIM-SM, PIM-SSM, PIM-DM, PIM-SDM, IGMP v1/v2/v3, MSDP, MVPN, NG-MVPN, PIMv6-SM/SSM, MLD		
IPv4/IPv6	Support IPv4 & IPv6 dual stack, TCP/IP/UDP v4&v6		
VPN	IPSec VPN, GRE VPN, L2TPv2&v3 VPN		
Network security	ACLv4&v6, NAT, NAT64, AAA, IKE, PKI, Radius, TACACS, Port Security		
Anti-attack	Land attack, Fraggle attack, Smurf attack, Syn flood attack, ICMP flood attack, illegal TCP/IP/UDP attack, Storm control, UDP flood attack, SNMP/FTP/SSH/Telnet attack		
MPLS	MPLS LDP, L2 VPLS, L3 MPLS, MPLS QoS, MPLS OAM, 6PE		
QoS	FIFO, PQ, FQ, WFQ, CBWFQ, LLQ, RSVP, CAR, H-QoS, Traffic shaping		

reliability	Port back-up, Dampening, VRRP, VBRP, Track, BFD, load balance
Management	SHELL, SNMP V1/V2/V3, Telnet, SSH, Rlogin, FTP, TFTP, TR069, PPP, PPPoE, NetFlow, IPFIX traffic monitor, U-disk start, MIB, DNS/DDNS, NTP, IP-SLA,

Order Information

Host model	Description
MP1800X-40	One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, support TD-LTE, FDD-LTE, WCDMA, GSM, dual SIM slots and single modem, DC power supply
MP1800X-40W	One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, support TD-LTE, FDD-LTE, WCDMA, GSM, support WIFI (IEEE 802.11b/g/n), dual SIM slots and single modem, DC power supply
MP1800X-40E	One RJ 45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, support TD-LTE, FDD-LTE, WCDMA, GSM, dual SIM slots and dual modem, DC power supply