

# MP1800X-40(V11/V12) MPLS Edge Router Datasheet

## Overview

MP1800X-40(V11) and MP1800X-40(V12) routers developed by Maipu are one new-generation enterprise-class MPLS edge routers applicable to enterprise and government branch offices. It integrates various modern network technologies, such as routing, switching, QoS, and security, providing flexible access modes and a secure and high-efficiency service experience for the users.

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

MP1800X-40(V11/V12) Ethernet ports can back up each other. Each Ethernet WAN port can serve as the master port. Ethernet WAN port supports static address, DHCP, and PPPoE access modes. The master/standby switching supports the failover based on the link status and peer track IP.

MP1800X-40 Series is the next-generation version of MP801E&MP1800 series, widely deployed in many countries.

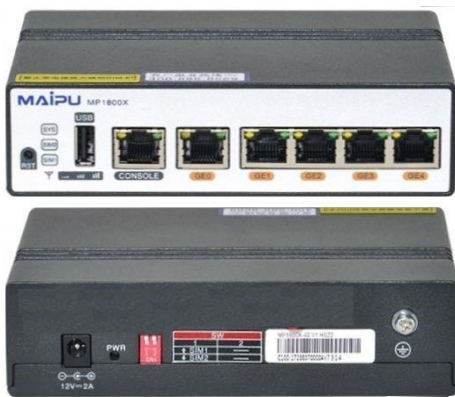
MP1800X-40(V11) supports one RJ 45 Console port, one USB interface, five 10M/100M/1000M ethernet ports, and 12V DC power input.

MP1800X-40(V12) supports one RJ 45 Console port, one USB interface, five 10M/100M/1000M ethernet ports, 12V DC power input, and 60 degrees centigrade high working temperature design.



**MP1800X-40(V11)**

- Fixed Ports: 5\*GE copper RJ45 (can be configured as WAN or LAN)
- 1\*RJ45 Console Port
- 1\*USB2.0
- 1\*Reset Button
- 0~45 degrees centigrade working temperature
- Dimension (L\*D\*H): 145mm\*100mm\*38mm
- Power: 1\*external AC adaptor, DC 12V input.



**MP1800X-40(V12)**

- Fixed Ports: 5\*GE copper RJ45 (can be configured as WAN or LAN)
- 1\*RJ45 Console Port
- 1\*USB2.0
- 1\*Reset Button
- -20~60 degrees centigrade working temperature
- Dimension (L\*D\*H): 145mm\*100mm\*38mm
- Power: 1\*external AC adaptor, DC 12V input.

## Highlights

Highlights	Benefits
High performance	<ul style="list-style-type: none"> <li>● Multi-core high-performance processor.</li> <li>● 10/100/1000M Base-T high-speed Ethernet port.</li> </ul>
Reliable Hardware	<ul style="list-style-type: none"> <li>● Widely working temperature, up to 60°C (MP1800X-40 V12).</li> <li>● Fanless and Fin heat dissipation design.</li> <li>● Metal shell and IP30 protection.</li> </ul>
Flexible deployment	<ul style="list-style-type: none"> <li>● Support multiple WAN protocols: DDR, PPPoE, EDP, DHCP, Static, 4G/3G</li> <li>● Small dimension easy to install and deploy.</li> <li>● Support advanced protocol, such as BGP, MPLS, VPLS.</li> <li>● IPv6 Ready fully supports IPv6 features.</li> </ul>
High reliability	<ul style="list-style-type: none"> <li>● Provide multiple link backups to ensure connectivity.</li> <li>● Fault detection in milliseconds, and support auto rollback.</li> </ul>
Easy O&M	Multiple management methods: standard SNMP monitoring and management, Web-based GUI, SD-WAN-based management, traditional command-line interface.
Service convergence	Integration of functions, such as routing, switching, security, firewall, simplifying networking deployment.
Security	Built-in firewall features, stateful firewall, IPS, URL Filtering, VPN access.
ZTP	Zero-Touch (USB, DHCP, EDP...), easy for installation and configuration.

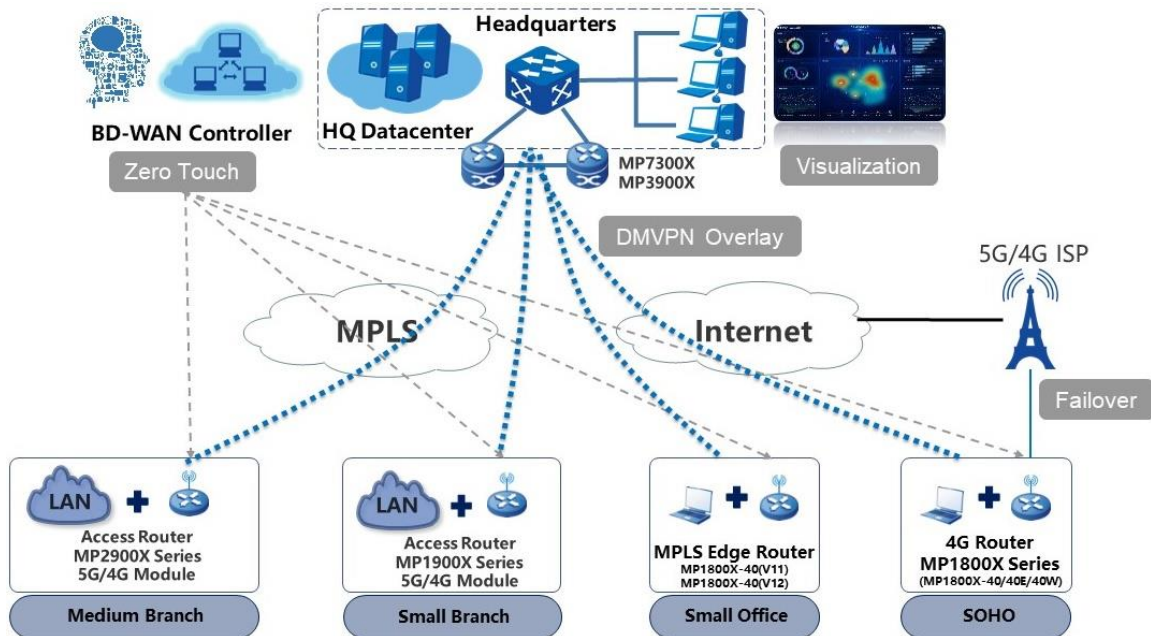
# Product Specifications

Hardware Specification	MP1800X-40(V11)	MP1800X-40(V12)
CPU	1GHz Dual Core	1GHz Dual Core
Memory (Default)	512M	512M
Flash (Default)	128M	128M
Dual IOS	Yes	Yes
Fixed interface	5 GE RJ45 (WAN or LAN)	5 GE RJ45 (WAN or LAN)
USB	1*USB2.0	1*USB2.0
Console port	1*RJ45 console port.	1*RJ45 console port.
Dimension (L*D*H)	150mm*106mm*25mm	145mm*100mm*38mm
Power supply	12V DC input	12V DC input
Power consumption	≤20W	≤20W
IP Security Level	IP30	IP30
Working Temperature	0°C~45°C	-20°C~60°C
Humidity	Work humidity: 5%-85%/RH	Work humidity: 5%-85%/RH
Weight	≤1KG	≤1KG
Software features		
WAN Protocol	DDR, NDIS, PPPoE, Bridge Group, EDP	
LAN Protocol	STP/RSTP/MSTP, MAC management, 802.1q VLAN, LACP, Loopback Detection, SPAN, LLDP, Port-isolate, Error-disable, ULFD, Port Security	
TCP/IP Protocol	DHCP, DNS, DDNS, NAT, NAT64, NAT66, NAT ALG, IPIP, GRE, L2TP/L2TPv3	
IPv4 Routing protocol	Static, RIP, OSPFv2, IS-IS, BGP, Policy Routing	
IPv6 Routing Protocol	IPv6 Static, RIPng, OSPFv3, IS-ISv6, BGP4+, IPv6 Policy Routing	
IPv6 function	IPv4/IPv6 Dual-Stack, IPv6 ND, IPv6 PMTU, IPv6 ACL, ICMPv6, DNSv6, DHCPv6, GREv6	
IPv6 Transition Tunneling	IPv6 over IPv4, 6to4, ISATAP	
Multicast	IGMP v1/v2/v3, PIM-DM/PIM-SM, SSM, MVPN, NG MVPN, MSDP, MLD, IPv6 PIM, MBGP	
VPN	IPSec, PKI, MPLS, VPLS, VPWS, L3VPN, OAM, 6PE, VRF, DVPN, VxLAN	
MPLS	LDP, MPLS L3VPN, MPLS L2VPN, MPLST TE, IP FRR, LDP FRR, TE FRR	
Security	ACL, SSH, CPU protection, Firewall, IPS, URL Filter, AAA, IKE, PKI, 802.1X, URFP	
QoS	FIFO, PQ, FQ, WFQ, CBWFQ, LLQ, RSVP, CAR, H-QoS, traffic shaping, Rate Limitation	
Reliability	Backup interface, VRRP/VRRPv3, VBRP, IPSLA, Track, BFD/BFDv6	
Automation	ZTP, Netconf	
Management & Monitoring	Keepalive, NTP, EEP, RMON, CWMP, CLI, SSH, HTTP/HTTPS, SNMP V1/V2/V3, Telnet, PING, Trace Route, Login, FTP, TFTP, SFTP, TR069, IP-SLA, Telemetry, IPFIX	

# Application Scenario

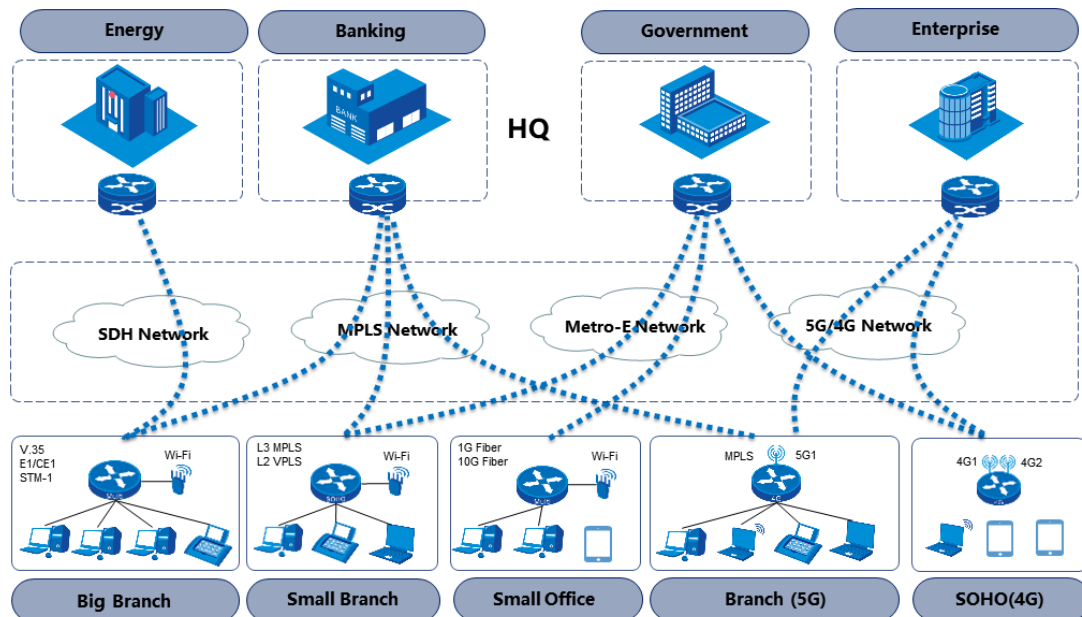
## Enterprise WAN Solution

Maipu can provide a total solution of enterprise WAN network, MP1800X/1900X/2900X series access router is working at enterprise branch offices and supporting multiple physical links, such as MPLS links, Internet links, and 5G/4G mobile network links. MP3900X/MP7300X/MP7500X series aggregation router is working at enterprise HQ. Maipu Matrix View is SNMP centralized managed platform.



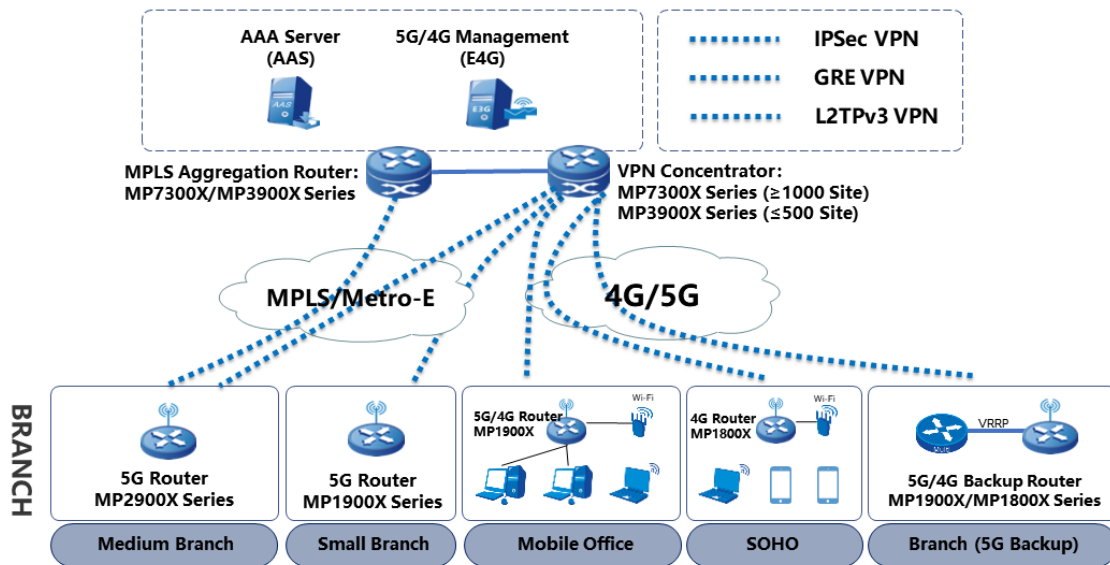
## Telecom Managed Service

In this scenario, Maipu MP1800X/1900X/2900X series routers are used as the egresses of enterprise branches and provide flexible WAN access, supporting SDH, MPLS, Metro-E, and 5G/4G links, helping the customer reduce the OPEX, CAPEX and improving customer's network experience.



## Enterprise VPN Solution

Maipu MP1800X/1900X/2900X series router provides various VPN access functions for communication between branches and headquarters over multiple physical links. Secure tunnels such as GRE, L2TP, IPsec, and DVPN tunnels can be set up between the HQ and branches for secure data access and transmission.



## Order Information

Host model	Description
MP1800X-40(V11)	One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, 12V DC power supply
MP1800X-40(V12)	One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, 12V DC power supply
<b>Power Adaptor</b>	
AD24-1S5N	Input: AC 100V-240V, Output:12V/2A, length:1.5m, India Standard
AD24-1S4N	Input: AC 100V-240V, Output:12V/2A, length:1.5m, UK Standard
AD24-1S3N	Input: AC 100V-240V, Output:12V/2A, length:1.5m, Europe Standard
AD24-1S2N	Input: AC 100V-240V, Output:12V/2A, length:1.5m, American Standard

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