MP1800X-40 Series LTE Edge Router Datasheet

Overview

MP1800X-40 Series router developed by Maipu is one new-generation enterprise-class LTE edge 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 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.

MP1800X-40 Series 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.

MP1800X-40 Series includes two models which are MP1800X-40, MP1800X-40E.

MP1800X-40 supports One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, dual SIM slots and single 3G/4G modem, 12V DC Connector.

MP1800X-40E supports One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, dual SIM slots and Dual 3G/4G modem, 12V DC Connector.

MILLING MARKET	 Fixed Ports: 5*GE copper RJ45 (Can be configured as WAN or LAN) SIM Slots: 2 Modem: 1 4G LTE Band: 1/3/5/7/8/20/40 3G UMTS Band: 1/5/8 Dimension (L*D*H): 145mm*100mm*38mm Power: 1*external AC adaptor, DC 12V Connector.
MP1800X-40E(E2)	 Fixed Ports: 5*GE copper RJ45 (Can be configured as WAN or LAN) SIM Slots: 2 Modem: 2 4G LTE Band: 1/3/5/7/8/20/40 3G UMTS Band: 1/5/8 Dimension (L*D*H): 145mm*100mm*38mm Power: 1*external AC adaptor, DC 12V Connector.

Highlights

Highlights	Benefits	
High performance	 Multi-core high performance processor. 10/100/1000M Base-T high-speed ethernet port. 	
Reliable Hardware	 Widely working temperature, up to 60°C. Fanless and Fin heat dissipation design. Metal shell and IP30 protection. 	
Flexible deployment	 Support multiple WAN protocol: DDR, PPPoE, EDP, DHCP, Static, 4G/3G Small Dimension easy to install and deploy. Support advanced protocol, such as BGP, MPLS, VPLS. IPv6 Ready, fully support IPv6 features. 	
High reliability	 Provide multiple link backup to ensure connectivity. Fault detection in milliseconds, and support auto roll back. 	
4G LTE Access	 In-built one or two 4G modems, easy for installation. Support dual SIM card in all models. Support SIM card backup and SIM card auto switchover. Support Active-Active working mode. (MP1800X-40E only) 	
Easy O&M	Multiple management methods: standard SNMP monitoring and management, Web-based GUI, 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.	

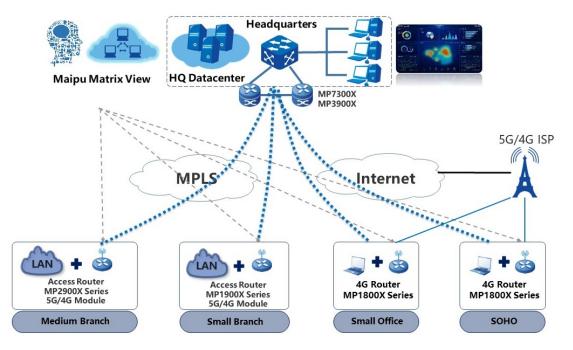
Product Specifications

Hardware specification	MP1800X-40	MP1800X-40E	
Hardware Version	E2	E2	
CPU	1GHz Dual Core	1GHz Dual Core	
Memory (Default)	512M	512M	
Flash (Default)	128M	128M	
Fixed interface	5 GE RJ45 (WAN or LAN)	5 GE RJ45 (WAN or LAN)	
3G/4G	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	
USB	1*USB2.0	1*USB2.0	
Console port	1*RJ45 console port.	1*RJ45 console port.	
Antenna interface	2 SMA interfaces	4 SMA interfaces	
4G Signal Strength LED	Support	Support	
Dimension (L*D*H)	145mm*100mm*38mm	145mm*100mm*38mm	
Power supply	12V DC Connector	12V DC Connector	
Power consumption	≤20W	≤20W	
IP Security Level	IP30	IP30	
Working Temperature	-20°C~60°C	-20°C~60°C	
Humidity	Work humidity: 5%-85%/RH	Work humidity: 5%-85%/RH	
Weight	≤1KG	≤1KG	
Software features			
4G LTE	SIM Lock, SIM Switch, 4G Band lock, Auto-recovery, multi-APN profile, SMS		
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		
Wi-Fi	802.11b/g/n, multiple SSID, SSID Broadcast, Open/WPA/WPA2(Only for MP1800X-40W)		
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

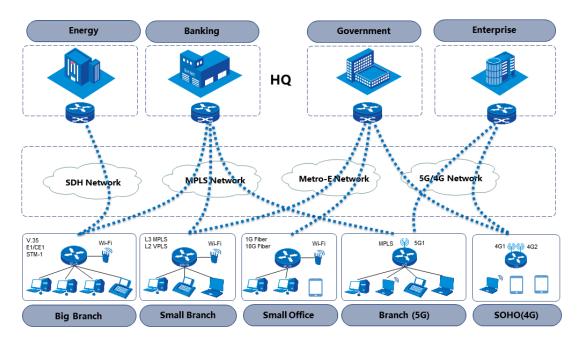
Enterprise WAN Solution

Maipu can provide 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.



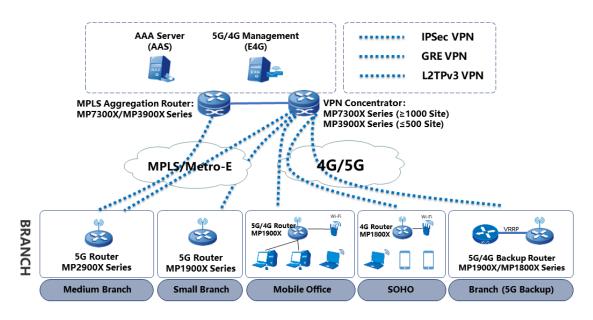
Telecom Managed Service

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



Enterprise VPN Solution

Maipu MP1800X/1900X/2900X series provide 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	E2 Version: One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, support TD-LTE, FDD-LTE, WCDMA, GSM, dual SIM slots and single modem, 12V DC Power Input. (LTE-FDD: B1/3/5/7/8/20; WCDMA: B1/5/8)	
MP1800X-40E	E2 Version: One RJ45 Console port, one USB interface, five 10M/100M/1000M Ethernet ports, support TD-LTE, FDD-LTE, WCDMA, GSM, dual SIM slots and dual modem, 12V DC Power Input. (LTE-FDD: B1/3/5/7/8/20; WCDMA: B1/5/8)	
Extension Antenna (Optional)		
ANT-NQFX-PS02-01	3G/4G Antenna, 699-2700MHz, Connector: SMA Male, Length:1.5m	
ANT-NQFX-PS02-03	3G/4G Antenna, 699-2700MHz, Connector: SMA Male, Length:3.0m	
Power Adaptor (Mandatory)		
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	
AD24-1S4N	Input: AC 100V-240V, Output:12V/2A, length:1.5m, UK Standard	

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