

# MP1700X-40 Series LTE Edge Router

## Datasheet

### Overview

MP1700X-40 LTE edge router developed by Maipu is one new-generation enterprise-class access router, applicable to enterprise small 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. MP1700X-40 is the next generation version of MP1700 series which was widely deployed in many countries.

MP1700X-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 power input;



MP1700X-40 Access Router

MP1700X-40 has rich 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. MP1700X-40 Series supports various secure and reliable management methods, providing the simple and easy-to-use remote network management.

### Highlights

- Single 3G/4G Modem and Dual SIM for WAN access
- Higher performance upgrading
- Richer software features
- Advanced VPN technologies
- Rich Management modes

# Key Features

- **High speed WAN & LAN interfaces**

MP1700X-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 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**

MP1700X-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**

MP1700X-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**

MP1700X-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.

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

MP1700X-40 can flexibly select the inbuilt 3G/4G modem, according to the customer requirements, support 3G WCDMA, support TD-LTE and FDD-LTE two 4G standards; meanwhile, cooperates with IPsec VPN to provide the secure and flexible wireless WAN access for the customer.

- **Rich Management modes**

MP1800X-40 series router supports complete management modes, including SNMPv1/v2c/v3, CLI, USB drive deployment, MIB, RMON, SYSLOG, TR069, IPFIX, etc. Combine with Maipu E4G Platform, it can provide the simple and easy-to-use remote network management.

# Product Specifications

Hardware specification	MP1700X-40
CPU	1GHZ Dual Core
Memory (Default)	512M
Flash (Default)	128M
Fixed interface	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
LTE Band	FDD-LTE: 1/3/5/7/8 TDD-LTE: 38/39/40/41
USB	1
Console port/AUX	1
antenna interface	2 SMA interface
Dimension (L x W x H)	150mm*106mm*25mm
Input voltage	12V DC
Power consumption	≤20W
IP Protection Level	IP30
Anti-Lighting Level (Power)	6KV
Working Temperature	Work temperature: 0°C~45°C
Humidity	Work humidity: 5%-85%/RH
<b>Software features</b>	
Switch feature	Support VLAN, MSTP, LACP, FDB, Port Manage, LLDP, 802.1x, 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
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
MP1700X-40	E1 Version: 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
<b>Antenna</b>	
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
<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

All rights reserved. Printed in the People's Republic of China.

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise without the prior written consent of Maipu Communication Technology Co., Ltd.

Maipu makes no representations or warranties with respect to this document contents and specifically disclaims any implied warranties of merchantability or fitness for any specific purpose. Further, Maipu reserves the right to revise this document and to make changes from time to time in its content without being obligated to notify any person of such revisions or changes.

Maipu values and appreciates comments you may have concerning our products or this document. Please address comments to:

*Maipu Communication Technology Co., Ltd*  
No.288, Tianfu 3rd Street  
Hi-Tech Zone  
Chengdu, Sichuan Province  
P. R. China  
610041  
Tel: (86) 28-65544850,  
**Fax:** (86) 28-65544948,  
**URL:** [http:// www.maipu.com](http://www.maipu.com)  
**Email:** [overseas@maipu.com](mailto:overseas@maipu.com)

All other products or services mentioned herein may be registered trademarks, trademarks, or service marks of their respective manufacturers, companies, or organizations.