



MP1800-35E(V2) Datasheet

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Overview

MP1800-35E router developed by Maipu is one new-generation enterprise-class access router, applicable to finance/government/branches of large enterprise, and headquarters and branches of middle/small enterprise. 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.



MP1800-35E (V2) Access Router

Product Features

- **Flexible uplink link**

MP1800-35E integrates three Gigabit WAN ports (two 1000M Combo + one 1000M Base-T fixed interfaces). 1000M Combo interface supports 1000M/100M fiber. In the MSTP link optical access scenario, do not need to configure media converter; meanwhile, uplink supports various mainstream WAN access link technologies, such as 3G/4G, E1/CE1, and serial line.

- **Extended slots are flexible and no limitation**

MP1800-35E has no using limitation for the extended slots. The whole device supports four extended slots and they has no high/low-speed difference and no limitation for the cards; meanwhile, the two extended slots of MP1800-35E support the horizontal or vertical slot merging to provide higher-density service interfaces in the future.

- **High performance**

MP1800-35E series router reaches more than 500kpps forwarding performance and the configured ACL, QoS, have small influence for the forwarding performance.

- **High port density**

MP1800-35E series router supports up to 8*1000M fixed switch LAN ports, providing the powerful terminal access capability and meeting the requirement of the user for integrating the routing and switch to construct the access network.

- **Rich software features**

MP1800-35E 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.

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

MP1800-35E can flexibly select the inbuilt 3G/4G module and outer USB interface, according to the customer requirement, supports three 3G standards, that is, TD-SCDMA, CDMA2000, and WCDMA, supports 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.

- **Convenient service deployment**

MP1800-35E supports deploying by U-disk. When the devices need to be deployed, you just need to insert the private U-disk to the device so that MP1800-35E can automatically load the corresponding IOS software and configuration, that is, plug and play.

Product Specification

Hardware specification		MP1800-35E-AC (V2)
Processor		Multi-core MIPS processor
Memory		512MB
Flash		32M
Fixed interface		3GE WAN (2GE Combo + 1GE Base-T)
Switch ports		8GE Base-T
Control card slots		N/A
Service engine slots		N/A
Service sub-card slots		2
Forwarding performance		>500Kpps
USB		1
Console port/AUX		1
Micro SD card		Support, inbuilt
Dimension (L x W x H)		340mm×260mm×44.2mm
Input voltage		100-240V
Power consumption		26W
Temperature		Work temperature: 0 - 45℃
		Storage temperature: -40 - 70℃
Humidity		Work humidity: 5%-85%/RH
		Storage humidity: 5%-85%/RH
Cooling mode		Forced air cooling
Software features		
Link-layer protocol and technology	WAN	FR, MFR
		HDLC
		PPP, MP, support LCP/PAP/CHAP negotiation functions
		PPPoE Client
		Bridging
		Virtual Ethernet bridge
	LAN	Dynamic and static ARP, proxy ARP, free ARP
		Ethernet, Ethernet II, VLAN (VLAN-BASED PORT VLAN, VOICE VLAN, Guest VLAN), 802.3x, 802.1p, 802.1Q, 802.1x
		STP/RSTP/MSTP
		IGMP Snooping, GVRP
		IEEE802.3ad LACP
		Port mirroring
		Broadcast storm suppression
Network protocol	Route protocol	Static route
		RIP v1/v2
		OSPF

		IS-IS
		BGP
		ECMP, route policy, recursive route
	Multicast protocol	IGMP v1/v2/v3
		IGMP Snooping
		PIM-DM, PIM-SM, PIM-SDM, PIM-SSM
		DVMRP, MSDP
	IP application	DHCP Server, DHCP Client, DHCP Relay
		DNS, DDNS
		FTP Server, FTP Client
Ping, Trace		
Network security	ACL	Standard IP ACL, extended IP ACL, standard MAC ACL, Ethernet protocol ACL, Reflexive ACL
	Security defending	Control plane protect, URPF
	DDOS anti-attack	ICMPFlood interception, Smurf attack interception, Fraggle attack interception, LAND attack interception,, SYNflood attack interception
	VPN	L2TP, GRE, IPSec, IKE, RSA
	NAT	Static NAT, dynamic NAT, static NAPT, dynamic NAPT
	Authentication	Local authentication, Radius, Tacacs Portal authentication, 802.1x authentication, MAC authentication
	MPLS/BGP VPN(L3 VPN)	Support one Site belonging to multiple VPNs, support multi-role host
QoS	Flow classification	Based on port, MAC address, IP address, IP priority, DSCP priority, TCP/UDP port number, protocol type and so on
	Traffic monitoring	CAR, LR
	Congestion management	PQ, FQ, CQ, CBWFQ, LLQ
	Congestion avoidance	RED, WRED
	Traffic shaping	GTS
	Other	H-QoS, Ethernet sub interface QoS, MPLS QoS
Reliability	Link reliable	Support BFD for BGP/IS-IS/OSPF/VRRP
		Support Keepalive Gateway
	Backup function	Support interface backup mode
		Support VRRP
		Support bandwidth-based load balance and backup Support user-based (IP address) load balance and backup
Service reliable	Support IP FRR, TE FRR	
OAM	Network management	SNMP v1/v2/v3, MIB, RMON, SYSLOG,
	System management	Console port login management, AUX port login management, Telnet (VTY) remote management, SSH management, WEB management
	Network quality guarantee (SLA)	Support DHCP, FTP,HTTP,ICMP,UDP public, UDP private, TCP public, TCP private, SNMP protocol test
		Support voice jitter test Support network delay, jitter, packet loss rate test

Order Information

Host model	Description
MP1800-35E-AC	V2 Version: One RJ45 console port, one USB interface, three 10M/100M/1000M WAN ports (Two GE Combo ports + One GET port), 8GE LAN port, two RM2B slots, FLASH 32M, memory 512M, AC power
Multi-functional module	
Module Name	Description
RM2B-1E1	Single-port un-channelized E1 module
RM2B-2E1	Two-port un-channelized E1 module
RM2B-1CE1	Single-port channelized E1 module
RM2B-2CE1	Two-port channelized E1 module
RM2B-1SA	Single-port high-speed V35 serial port module, Only For Slot 1
RM2B-2SA	Two-port high-speed V35 serial port module, Only For Slot 1
RM2B-1GE	Single-port Gigabit Ethernet module, Combo port, Only For Slot 1
RM2B-4GET	Four-port Gigabit Ethernet electric interface module
RM2B-3G-C	RM2B single-port 3G card, CDMA2000 mode. CDMA2000 1xEV-DO Rel A/CDMA2000 1xEV-DO Rel 0/ CDMA2000 1xRTT version
RM2B-3G-W	RM2B single-port 3G card. WCDMA mode, WCDMA HSDPA/UTMS/EDGE/GPRS version
RM2B-3G-T	RM2B single-port 3G card, TD-HSDPA mode
RM2B-4G-LTE	RM2B-4G-LTE, single-port 4G card, LTE-FDD (band:1/3),TD-LTE (band 39/40/41), WCDMA, TDCDMA,EDGE/GPRS/GSM