



MP1800 Series Router Datasheet

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MP1800 Series Integrated Services Router

The MP1800 series integrated services router is a medium network access router. It adopts modular design, integrates routing, switching, security, VoIP and transmission functions. It can provide a cost-effective solution for medium and small branch offices.

MP1800 router, combining with other Maipu series routers, can provide complete WAN network solution for finance, government, energy sources, traffic, education and military industries, SME (small/medium enterprise) and operators.



MP1800

Key Features

- Modular design;
- Integrates the routing, switching, security, VoIP, transmission, local storage, realizing intelligent network;
- High cost-effective, supporting the expansion of WAN bandwidth to 100M;
- High expansibility, various WAN interfaces and VoIP to realize the narrowband access;
- Provides multi-Ethernet access, realizing broadband expansion;
- Ethernet interfaces can apply L3 technology to realize the intelligent control of services;
- Realizes the intelligent load balance of various WAN lines
- Provides auto-diagnosing intelligent network management system of network faults, realizing "zero-spot service";
- Provides rich software functions, supporting complete MPLS protocols and IP-SLA features;
- Compatible with the main third-party network management system;
- Compatible with the main router supplier in the industry;

Technical Specifications

Item	Description				
Product configuration					
Produce model	Console port	RM2 MIM slot	VoIP slot	Fixed Standard interface	SNA/IPSec jack
MP1800	1	2	1	2FE(WAN)+8FE(LAN)	1
Performance					
Processor	High-speed RISC processor				
Flash	32MB				
Memory	128MB				
Standards & protocols					
Link protocol	PPP, PPPoE, SLIP, SDLC, FR,ATM, LLC2, ISDN, X.25, HDLC, LAPB, Ethernet_II, Ethernet_SNAP, 802.1Q,MSTP,ISDN				
Network protocol	TCP/IP, ICMP, UDP, FTP, TFTP, SNMP, TELNET, RLOGIN, DHCP, DHCPv6,HTTP, DNS, DDNS,ARP, DLSw, DDR,NAT,NTP,IPFIX,IPv6				
Routing protocol	Static routing protocol, RIPv1, RIPv2, OSPF,OSPFv3, BGP, ISIS,NDSP, IRMP, SNSP, IGMP, DVMRP,MSDP, PIM-SM/DM/SDM/SSM, Policy route, VBRP, VRRP,MVPN				
Network security	PPP encryption, L2TP,L2TPv3, GRE, policy routing,802.1X, AAA, ACL, IPSec, IKE, PKI, CA, LDP, MPLS VPN, MPLS L2/L3VPN,MPLS TE,VPLS,SSH				
IP phone	H.323 protocol, H.225, H.245, RTP/RTCP, RTP condensation, T.38/T.30, G.711A/μ, G.729, G.729A/B, G.723.1 (5.3/6.3K),SIP				
QoS	FIFO, PQ, CQ, FQ, WFQ, CBWFQ, LLQ, RSVP, CAR, SPD, WRED, Traffic Shaping				
Physical indices					
Dimension (H x W x D)	44.5mm x 444mm x 318mm				
Weight	(Maximum) 4.5Kg				
Power supply requirement					
Input voltage (AC)	100~240V, 50/60Hz				
Input voltage (DC)	Voltage: -40 ~ -57V Current: 1.5A				
Power consumption (maximum)	27W				
Environment					
Operating temperature	0~40°C				
Operating humidity	10~90%. Non-condensing				

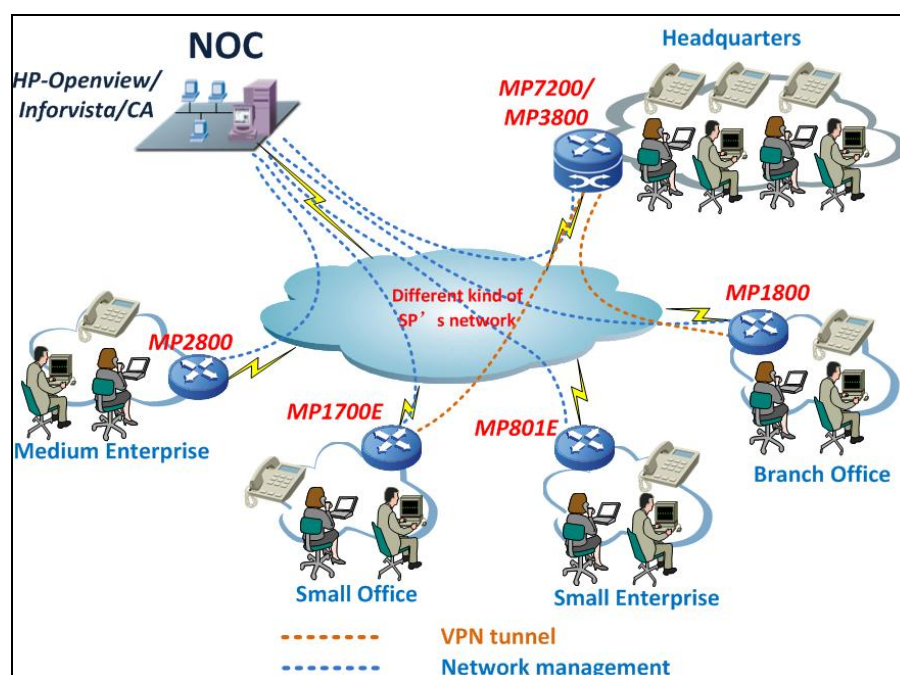
Order Information

Product model	Description
RM1800-3-8FE-AC	MP1800-3 router. Two RM2 high-speed MIM slots, one VoIP slot, two 10/100M WAN Ethernet interfaces + eight 10/100M LAN Ethernet interfaces, one console port, 32Mbytes flash, 128Mbytes memory, AC power supply
RM1800-3-8FE-DC48	MP1800-3 router. Two RM2 high-speed MIM slots, one VoIP slot, two 10/100M WAN Ethernet interfaces + eight 10/100M LAN Ethernet interfaces, one console port, 32Mbytes flash, 128Mbytes memory, DC power supply
High-speed MIM module	
RM2-1SAE	One-port high-speed sync/async serial module
RM2-1CE1	One-port channelized E1 module
RM2-1E1	One-port non-channelized E1 module
RM2-1STA	One-port ISDN S/T module (suits for VoIP slot also)
RM2-1U	One-port ISDN U module
RM2-1M336	One-port 33.6Kbps frequency band MODEM module
RM2-8AX	8-port asynchronous module (suits for VoIP slot also)
VoIP module	
RM2-1VOP	One-port FXS module (Suits for RM2 MIM and VoIP slots)
RM2-2VOP	Two-port FXS module (Suits for RM2 MIM and VoIP slots)
RM2-1VOS	One -port FXO module (Suits for RM2 MIM and VoIP slots)
RM2-2VOS	Two-port FXO module (Suits for RM2 MIM and VoIP slots)
SNA/IPSec jack	
IPSec	IPSec chip

Typical Applications

Networking for Data Encryption of Branches

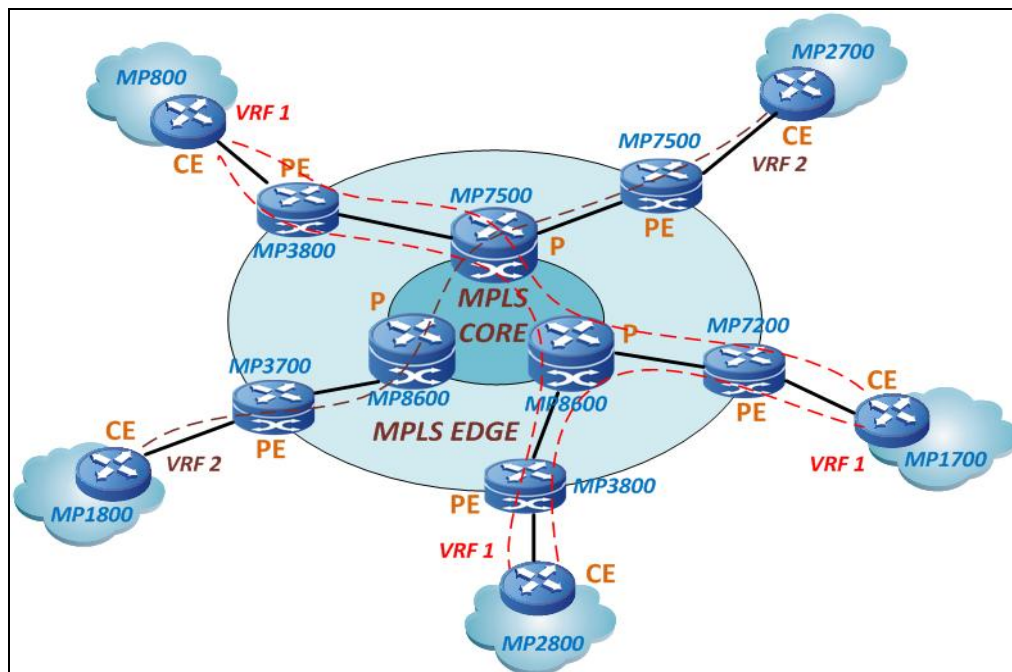
With the business expanding of the group company, the branches and small offices need to exchange information with the headquarters. The medium/low-end routers of Maipu serve as the access devices of the medium/small branches and can set up the security tunnel with the core router in the headquarters via the public network, ensuring the security and reliability of the company information and saving the costs of leased lines.



The headquarters adopts the medium/high-end routers of Maipu. With the high performance and high security of the router, and the VLAN isolation and 802.1X authentication technologies, the security access authentication for the intranet users can be realized.

The branches adopt the medium/low-end routers of Maipu as the access platform of VPN and IPSec.

MPLS VPN Solution



MAIPU routers support MPLS VPN and can be used as CE and PE equipment. MAIPU CE routers include MP800, MP1700, MP1800, MP2700, MP2800, MP3700, MP3800 and MP7200. MAIPU PE routers include MP2800, MP3700, MP3800, MP7200 and MP7500.

In MPLS VPN network, PE runs MPLS and PE router connects to VPN network via VRF. The CE equipments related to the same VPN tunnel can access each other.

MAIPU routers offer various WAN interfaces including E1, CE1, V.35, ISDN, PSTN and Ethernet. The operator can provide primary and secondary lines for enterprise customers simultaneously to enhance MPLS business quality.

Besides, by using MAIPU MPLS access solution, the operator can provide VoIP services without increasing any cost.