MP7300X-08 Aggregation Router Datasheet

Overview

At the cloud calculation and mobile interconnection times with the fast increasing of the service traffic, the development trend of the customer service diversifying and network flatting makes the aggregation capability requirement of the network for the router higher. High reliability, high performance, high density, high security, and green are the urgent requirements of the customer for the aggregation router. Based on the customer requirements, Maipu launch the new-generation centralized service aggregation router MP7300X-08.

MP7300X-08 aggregation router is the next generation version of MP7300 series which was widely deployed in many countries.

MP7300X-08 supports Dual Control Engine Slots, One Service Engine Slot, 8*RM4B Slots, Dual AC Power Slots, One Fan Slot.

MP7300X-08

Highlights

- High speed WAN & LAN interfaces
- Buy as growing SPU engine design
- Dual Control Engines
- Full Modular Design
- Rich software features
- Advanced VPN services
- Complete management modes

Key Features

● **Flexible uplink link**

MP7300X-08 aggregation router support four kinds of high-performance SPU module which integrates 8 gigabit fixed WAN interfaces, customers do not need to configure additional WAN module; meanwhile, MP7300X-08 uplink supports various mainstream WAN access link technologies, such as 1G/10G Ethernet, E1/CE1, POS/CPOS and V.35 serial line.

● **More than eight expansion slots**

MP7300X-08 aggregation router is modular design which has rich expansion slots. The whole device supports 8 extended slots totally. The strong expansion ability can provide high-density access and protect customer investment. All the modules of MP7300X-08 support hot-swap.

● **High performance**

MP7300X-08 aggregation router reaches more than 8M-60Mpps forwarding performance and the configured ACL, QoS, have small influence for the forwarding performance. And customer can also upgrade the performance by changing SPU service engines.

● **Advanced Secure service**

MP7300X-08 aggregation router has the 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.

● **Rich software features**

MP7300X-08 aggregation router provides rich software features; supports various application technologies, such as IPv4/IPv6, 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, WFQ, CBWFQ, and LLQ.

● **Rich Management modes**

MP7300X-08 aggregation router supports complete management modes, including SNMPv1/v2c/v3, CLI, USB drive deployment, MIB, RMON, SYSLOG, TR069, IPFIX, etc. Combine with Maipu SNMP Management Platform, it can provide the simple and easy-to-use remote network management.

Product Specifications

Product Model	MP7300X-08	
Hardware specification		
CPU Processor	1.5GHZ Dual Core	
USB2.0 Port	1	
Console Port (RJ45)	1	
USB2.0 Port	1	
SD Slot	1	
SPU module	SPU20	SPU40
Throughput	25Mpps	50Mpps
Memory	4G	4G
Flash	8G	8G
Fixed WAN interface	8GE Combo	8GE Combo
SPU Slots	1	
RM4B Service Slots	8	
Power Supply Slots	2	
Fan Slot	1	
Dimension W*D*H(mm)	440mm*436mm*222mm (5U)	
Input voltage	AC 100-240V Or DC -48V	
Temperature	Work temperature: 0 – 45℃	
	Storage temperature: -40 – 70℃	
Humidity	Work humidity: 5%-85%	
	Storage humidity: 5%-90%	
Power Consumption	≤500W	
Cooling	Forced air cooling	
Software features		
Link-layer protocol	DDR, PPP, Frame-Relay, Bridge, HDLC, PPPoE, Port isolation, VALN, loopback detection, Error-Disable, MSTP, SPAN, LLDP	
TCP/IP Protocol	DHCP, DHCPv6, DDNS/DNS, NAT/NAT64	
Routing protocol	Static Route/Static Routev6, RIP/RIPng, OSPFv2/OSPFv3, BGP/BGP4+, IS-IS/IS-ISv6, IRMP, PBR	
Security	Support ACL security filtering, PPP encryption, SSH, CPU protection, port security, AAA, IKE, PKI, 802.1X, URFP	
VPN	MPLS, LDP, L2VPN, L3VPN, MPLS QoS, MPLS OAM, 6PE, GRE/GREv6, IPIP, L2TP, L2TPv3, VRF	
QoS	FIFO, PQ, FQ, WFQ, CBWFQ, LLQ, RSVP, CAR, H-QoS, traffic shaping, Rate Limitation	
Multicast	IGMP, MLD, PIM-SM/SSM, PIM-DM/SDM PIMv6-SM/SSM, MSDP, MVPN, NG-MVPN	
Reliability	Backup interface, VRRP/VRRPv3, VBRP, Track, BFD/BFDv6	
Management & Monitoring	Keepalive gateway, NTP, Mirroring, RMON, CWMP, CLI, SSH, WEB, SNMP V1/V2/V3, Telnet, PING, Trace Route, Login, FTP, TFTP, TR069, IPFIX traffic monitoring, IP-SLA	

Order Information

Router Host	
Host Model	**Description**
MP7300X-08 Host	
MP7300X-08-MF	MP7300X-08-MF chassis, two control engine slots, one service engine slot, eight line card slots, one fan slot, two power slots.
MP7300X-08 Control Engine	
RM3D-MPU	RM3D-MPU control engine, one CON/AUX/mini-USB port, one management LAN port, one CMM port, one USB port, one SD slot.
MP7300X-08 Service Engine	
RM3D-SPU20	RM7D-SPU20 Standard Service Engine Module. Integrated 8-port gigabit combo interfaces.
RM3D-SPU40	RM7D-SPU40 Advanced Service Engine Module. Integrated 8-port gigabit combo interfaces.
MP7300X-08 Power Module	
AD500-15005E	AC power module, 500W, 100-240V AC Input, 12V/42A, hot swap
DD500M-5S0B	DC power module, 500W, 40-57V DC Input, 12V/42A, hot swap
MP7300X-08 FAN Module	
FAN-4B-01	FAN-4B-01, fan module for MP7300X-08-MF
MP7300X RM4B WAN Module	
RM4B module	**Description**
RM4B-H-8GEF	Eight-port gigabit ethernet fiber WAN module
RM4B-H-8GET	Eight-port gigabit ethernet electrical WAN module
RM4B-H-1XGEF	One-port 10G SFP+ WAN module
RM4B-H-4XGEF	Four-port 10G SFP+ WAN module
RM4B-H-1CPOS-OC3	One-port 155M Channelized POS WAN module
RM4B-H-2CPOS-OC3	Two-port 155M Channelized POS WAN module
RM4B-H-1POS-OC3	One-port 155M OC3 POS WAN module
RM4B-H-4POS-OC3	Four-port 155M OC3 POS WAN module
RM4B-H-1POS-OC12	One-port 622M OC12 POS WAN module
RM4B-H-2POS-OC12	Two-port 622M OC12 POS WAN module
RM4B-H-4POS-OC12	Four-port 622M OC12 POS WAN module
RM4B-H-1POS-OC48	One-port 2.5G OC48 POS WAN module
RM4B-H-8E1	Eight-port non-channelized E1 WAN module
RM4B-H-8CE1	Eight-port channelized E1 WAN module
POS Fiber module	
SFP-M2-L03P3	155M POS SFP module, dual core,1310nm,2km
SFP-S2-L03P3	155M POS SFP module, dual core,1310nm,20km
SFP-S2-L12T3	622M POS SFP module, dual core,1310nm,15km
SFP-S4-L12T3	622M POS SFP module, dual core,1310nm,40km
SFP-S8-L12T5	622M POS SFP module, dual core,1550nm,80km
SFP-S1-L48P3	2.5G POS SFP module, dual core,1310nm,2km
SFP-S2-L48P3	2.5G POS SFP module, dual core,1310nm,15km
SFP-S4-L48P3	2.5G POS SFP module, dual core,1550nm,40km