# 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

| Hardware specification | MP7300X-08 | |
|---|---|---|
| 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**°C** | |
| | Storage temperature: -40 – 70**°C** | |
| 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 | |

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# 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 |