

# NSR7300X-08 MPLS Aggregation Router

## Datasheet

### Overview

The hardware of Maipu new-generation aggregation router NSR7300X-08 adopts the multi-core CPU, switching chipset, and high-speed memory. The software adopts Maipu MyPower operation system. It adopts the advanced architecture of separating control and forwarding, ensuring that the service data is not interrupted during switchover. It supports redundant control engines, redundant power supplies, redundant bootstrap programs, and all of the service cards support hot-swap. It can be widely deployed in government, finance, large and medium-sized enterprises, and other customers.



NSR7300X-08 MPLS aggregation router

### Key Features

#### ● Advanced Hardware Design

- ◇ NSR7300X-08 adopts the multi-core CPU, switching chipset, and high-speed memory. The software adopts Maipu MyPower operation system. It adopts the advanced architecture of separating control and forwarding, ensuring that the service data is not interrupted during switchover. It supports redundant control engines, redundant power supplies, redundant bootstrap programs, and all of the service cards support hot-swap.
- ◇ NSR router successfully put forward the concurrent data forwarding plane software, adapting the SMP architecture of the high-performance multi-core processor.
- ◇ The configuration file is completely encrypted, and the log file is encrypted strongly, controlling the hidden danger from the source.

#### ● High reliability

- ◇ The control and forwarding planes are separated. The master switching and data forwarding have no lost packet. The device stability is high.
- ◇ Redundant master, redundant power; the card supports hot-swap.

- ✧ Redundant bootstrap program; during the upgrade, power failure occurs, and the device starts from the standby drive.
- ✧ BFD and FRR are optimized comprehensively; only need 3ms to detect when link failure occurs.

## Product Specifications

Product Model	NSR7300X-08
<b>Hardware specification</b>	
Slots of master board	2
Slots of service module	8
SPU slots	1
Console port	1
Memory	4G
Flash	1Gb
WAN Throughput	15Mpps
MTBF	100,000 hours
Fan	1
Dimension (W×D×H)	440×436×222mm, the height is about 5U
Power consumption	≤250W
Power supply	Input voltage (AC): 100-240V, 50-60Hz
Temperature	Work temperature: 0°C–45°C Storage temperature: -20°C-50°C
Humidity	Work humidity: 10-90%, no-condensing Storage humidity: 5-95%, no-condensing
<b>Software specification</b>	
Link-layer protocol	Frame_Relay, HDLC, PPP, PPPoE, bridging, virtual Ethernet, QinQ, LACP
Routing protocol	Static route, RIP, RIPng, OSPFv2, OSPFv3, BGP, BGP4+, IS-IS, IS-ISv6, compatible EIGRP, IRMP
IPv4/IPv6	Support IPv4 and IPv6 dual protocol stack, support IPv4-to-IPv6 transition technology, including: IPv6 manual tunnel, 6to4 tunnel, GRE tunnel
Security	Support ACL security filtering, NAT, PPP encryption, L2TP, GRE, policy routing, AAA,

	SSH, IPSec VPN
MPLS	MPLS, LDP, L2VPN, L3VPN, MPLS TE, MPLS OAM
QoS	FIFO, PQ, FQ, WFQ, CBWFQ, LLQ, RSVP, CAR, HQoS, traffic shaping
Multicast	IGMP, MLD, PIM-SM/DM, PIM-SMv6, MSDP, MVPN multicast routing protocol
Management	SHELL, WEB, SNMP V1/V2/V3, Telnet, Rlogin, FTP, TFTP, support TR069, support IPFIX traffic monitoring function

## Order Information

Product Model	Description
NSR7300X-08-MF	NSR7300X-08-MF router host frame contains two control card slots, one business card slots, eight line card slots, one fan card slot, and two power module slots.
<b>Fan</b>	
FAN-4B-01	Modular fan, used by NSR7300X-08
<b>Power supply</b>	
AD250-1S005E-B	AC power supply, swappable power supply, input voltage 100-240V, output voltage: 12V/42A, isolation, current sharing, 250W
<b>Control card</b>	
NRM3-MPU	One CON/AUX port, one management Ethernet port, one CMM interfaces, inbuilt flash, NSR7300X-08 control card.
<b>Service engine</b>	
NRM3-SPU05	NRM3-SPU05, router, NSR7300X-08 service processing card
<b>NRM4 module</b>	
NRM4-H-8GET	8-port Gigabit Ethernet electric interfaces
NRM4-H-8GEF	8-port Gigabit Ethernet optical interfaces
NRM4-H-1XGEF	One-port 10G interface card
NRM4-H-1POS-OC3	One-port 155M POS interface
NRM4-H-4POS-OC3	4-port 155M POS interface

NRM4-H-1POS-OC12	One-port 622M POS interface
NRM4-H-8E1	8-port non-channelized interface card
NRM4-H-8CE1	8-port channelized interface card
NRM4-H-1CPOS-OC3	One-port 155M CPOS interface
NRM4-H-2CPOS-OC3	2-port155M CPOS interface

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