



N10GSM series

(Niveo Professional Managed 10G Switch series)

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Product Specification

The N10GSM Managed 10G Switch series are available in below configurations:

N10GSM8T8	176Gbps,130.944Mpps 8 x 10G SFP+ optical ports 8 x 10/100/1000M RJ45 1 Console port
N10GSM8T12	258Gbps,192Mpps 12 x 10G SFP+ optical ports 8 x 10/100/1000M RJ45 1 Console port
N10GSM1T24	484Gbps,360.092Mpps 24 x 10G SFP+ optical ports 1 x 10/100/1000M RJ45 port 1 Console port
N10GSM4QT48	1280Gbps,852Mpps 48 x 10G SFP+ optical ports 4 x 40G QSFP+ optical ports 1 Console port 1 OOB Port
N10GSM2C12	280Gbps,267.84Mpps 12 x 1G/10G RJ45 electrical ports 2 x 10G SFP+ optical 1 OOB 1 Console port
N10GSM2C8	200Gbps 148.8Mpps 8 x 1G/10G RJ45 ports 2 x 10G SFP+ optical ports 1 OOB 1 Console port

Introduction

The N10GMS-series are managed 10 Gigabit switches providing a maximum of 1280Gbps switching capacity, making it the the highest performance (1U TOR)in the industry. The range offers a a maximum of 852.32 Mpps forwarding performance with L2/ L3 full wire-speed forwarding. The modular design, provides up to 48 10G SFP+ optical ports, 1 Console port and up to 12 10/100/1000M RJ45 electrical ports, offering enough bandwidth for data aggregation and data exchange, especially when high and fast data transmission is needed such as deployment of 4K Video.



High density 10G access, performance is remarkable

- with a maximum 1280Gbps backplane capacity, the N10GMS switch series are the highest performance(1UTOR) switches in the industry
- The hardware packet forwarding rate of the wire speed layer 3 switching can reach 852,32Mpps, L2 / L3 full speed forwarding;

Convenient Maintenance

- (1) able to be managed via Web, SNMP, etc
- (2) support XModem protocol, use TFTP/ZMODEM for software upgrading and BootRom upgrading
- (3) support SFP+, simultaneously downward compatible XFP
- (4) support flexible port configuration

Powerful Flow and Broadcast Management

- (1) automatically detect and control broadcast storm, support IGMP packets detection, effectively limit the flooding of broadcast packets.
- (2) support Ethernet interface taking 1M as the step length for rate limiting

Safe and Reliable

- (1) provide DOS, DDOS, spoofing and virus defense
- (2) support IEEE802.1x, provide port-based user authentication, network shield, safety control, and policy control technology
- (3) restrict the maximum number of hosts connected with the port, multi-binding Ethernet interface, increasing bandwidth and system redundancy

Specifications

Model	N10GSM8T8	N10GSM8T12	N10GSM1T24	N10GSM4QT48	N10GSM2C12	N10GSM2C8
Basic Configuration						
10G-SFP-ports	8	12	24	48	2	2
40G QSFP ports	-	-	-	4	-	-
10/100/1000M RJ45 ports	8	8	1	-	-	-
1G/10G RJ45 ports	-	-	-	-	12	8
Console ports	1	1	1	1	1	1
OOB management port	-	-	-	1	1	1
Backplane bandwidth	176Gbps	258Gbps	484Gbps	1280Gbps	280Gbps	200Gbps
Packet forwarding rate	131.Mpps	192Mpps	360Mpps	853Mpps	267Mpps	149Mpps
Jumbo frames	12K	12K	12K	9K	1522	1522
Support store-forward mode and cut-through mode	yes	yes	Yes	yes	yes	yes
IPv4/IPv6 route	512/256	512/256	512/256	6K/8K	512/256	512/256



MAC address table	16K	16K	16K	128K	16K	16K
Packet Buffer	2MB	2MB	4MB	9MB	2MB	2MB
VLAN ID	4K	4K	4K	4K	4K	4K
Memory	512MB	512MB	32MB	32MB	512MB	512MB
Flash memory	8MB	8MB	256MB	1GB	16MB	16MB
Software Specification						
Security	IP+MAC+PORT+VLAN binding ARP inspection DOS defend Port protection IP Source Guard binding					
VLAN	Port based VLAN 802.1QVLAN IP based VLAN MAC based VLAN					
MAC address table	Static MAC address table Dynamic MAC address Table					
Storm Control	Broadcast suppression Multicast suppression DLF suppression Rate Limiting					
Traffic Control	Half-duplex control based on back pressure type Full-duplex control based on PAUSE frame					
Port Mirroring	Supported					
Port management	General Settings Port counting Port Configuration Port trunk Port Isolation					
QoS	IEEE 802.CQ congestion mechanism 8 send queue mapping 8 802.1P priority					
IP services	Ping detection DHCP snooping					
Spanning Tree Protocol	MSTP9802.1s) STP RSTP					
Multicast management	IGMP snooping frame					
System management	SNMPv1/v2, Console Telnet SSH, Web					