

NSH-2916

16-port 10/100/1000Base-T
Web Smart Switch



Overview

The NSH-2916 is the Layer 2 Web Smart Gigabit Switch which easily boosting networking throughput and handling an extremely large amount of data to an Enterprise backbone in a secure topology. The comprehensive QoS features, RSTP, VLAN and management functions enable the NSH-2916 to reduce the collisions from wide broadcasting and offer effective data traffic control for ISPs and enterprises, such as VoIP, video conference and multicast applications. The advanced network security features such as 802.1x, ARP Inspection and backpressure flow control mechanisms are also supported to ensure faithful data transmission in a secured way.

The NSH-2916 provides 16 10/100/1000Mbps Gigabit Ethernet ports that offer 32Gbps non-blocking bandwidth and performance. This makes the switch a best solution for service providers who want reduce transmission bottlenecks and simplify the tasks of upgrading the LAN for catering to increasing bandwidth demands. With high port density at capability of connecting up to 16 network devices, the NSH-2916 is ideal for the core layer of enterprise networks and service providers can extend their reach within metro areas; and with increased bandwidth, they can offer the most demanding Ethernet services efficiently and profitably as well.

Features

Network Function

Spanning Tree Protocol
Rapid Spanning Tree Protocol
Static Link Aggregation
IGMP Snooping v1, v2, v3
Port-based /Tag-based VLAN
IGMP Querier v1, v2

Network Management

CLI through Console port and Telnet
Web-based GUI
Auto Logout Timer

SNMP v1, v2c
RMON 1, 2, 3, 9
SNMP trap
Private MIB
Port-based Mirroring
Support Log/Trap messages of Hardware
Management VLAN
Firmware Upgrade
Configuration Backup/Restore

User Security

Access Control List (L2/L3/L4)
MAC Filtering/Forwarding/Limiting
DHCP Snooping
Port Authentication
Abnormal Traffic Detection
BPDU Guard
BPDU Filter

Traffic Management and QoS

Flow Control
Loopback Test
Auto MDI/MDI-X
Port Mirroring
Quality of Service
4 Priority Queues per port
SPQ/WFQ
Broadcast Storm Control
Bandwidth control
Traffic Control
4K static maximum
Rate Limitation
DSCP/Tos Support

IEEE 802.1x Port Authentication

Power

Input 100 ~ 240V AC
Power Consumption 18W

Performance

Switching Fabric 32Gbps
L2 Forwarding 23.8Mpps
MAC table size 16K
Jumbo Frame size 9K
Static MAC 256
Throughput 14,880pps to 10Mbps ports
148,800pps to 100Mbps ports
1,488,000pps to 1000Mbps ports

Ports

16 x 10/100/1000Base-T (RJ-45)

Mechanical and Environmental

Operating Temperature 0°C to 50°C
Storage Temperature -20°C to 70°C
Operating Humidity 10% to 80% RH
Storage Humidity 5% to 90%RH
Dimensions 440x44x170mm (WxHxD)
Weight 2.3kg

Ordering Information

NSH-2916

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Specifications

Standards

IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation
IEEE 802.3	N-Way Auto Negotiations
IEEE 802.1d	STP
IEEE 802.1w	RSTP
IEEE 802.1p	CoS Prioritization
IEEE 802.1q	VLAN Tagging