

NGSME48T2H

(48-Port 10/100/1000Base-T+ 2 10-Gigabit Combo TP/SFP Layer 2+ Full Management High Power PoE Switch)

- 48-Port PoE Gigabit Copper + 2-port 10-Gigabit ComboTP/ SFP+
- 802.3az Energy Efficient Ethernet
- 100G Non-Blocking Switching Capability
- Layer 2+ Full Managed Software Features
- 4K VLAN, 8 queues QoS, Advanced VLANs
- MSTP, LACP, LLDP, sFlow,
- 802.1X, RADIUS, TACAS+, ACL
- IPv6, IPv4/v6 Multicast Filtering

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Product Specification

Introduction

The NGSME48T2H switch is a48-port 10/100/1000Base-T + 2 10-Gigabit Combo TP/SFP Open Slot Rack-mount L2+ Full Management Network Switch that is designed for medium or large network environment to strengthen its network connection. The switch supports 100G non-blocking switch fabric, the 48 gigabit ports and 2 uplink ports can transmit and receive data traffic without any lost. The EEE feature reduces the power consumption when there is no traffic forwarding even port is still connected. The switch also supports Layer 2+ full management software features. These features are powerful to provide network control, management, monitor and security feature requests. Including rack-mount brackets, the 19" size fits into your rack environment. It is a superb choice to boost your network with better performance and efficiency.

2 Gigabit SFP Open Slots

NGSME48T2H is a 50-port design. It supports 2 additional Combo TP/ SFP open slots to uplink to servers, storage, or other switching devices for long loop reach applications. The 2 SFP slots can support different types, speed and distance SFP transceivers. It also supports legacy 100M SFP transceiver. If the 100M fiber infrastructure is constructed and 100M bandwidth is enough, the 100M SFP transceiver can be an optional choice for the legacy 100M network environment.

Full Layer 2 Management Features

The switch includes full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR… features. There are 8 physical queues Quality of Service, IPv4/v6 Multicast filtering, Rapid Spanning Tree protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and Spanning Tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced Network Security features. It also provides Console CLI for out of band management and SNMP, Web GUI for in band Management.

Advanced Security

This switch supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows to bind specific MAC address to the port, only the MAC has the privilege to access the network. The 802.1X port based Access Control, every user should be authorized first when they want to access the network. AAA is the short of the Authentication, Authorization and Accounting with RADIUS, TACAS+ server. Layer 2+ Access Control List allows user to define the access privilege based on IP, MAC, Port number… etc.

IEEE 802.3at Power over Ethernet (PoE) ports

The switch features 48 IEEE 802.3at Power over Ethernet (PoE) ports supplying up to 30 watts per port. This product can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at compliant network accessories. It also features PoE awareness to verify whether the network device receive

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power is IEEE 802.3at compliant, or only the data will be sent through LAN cable. By adding the switch to the existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up. Wireless device deployments are easily located with available power outlets and network administrators don't need to use heavy AC power adapters anymore.

Specifications

Standards	Ethernet: IEEE 802.3, 802.3u, 802.3ab, 802.3ae IEEE 802.3az Energy Efficient Ethernet (EEE) Protocol: IEEE 802.3x - Flow Control, IEEE 802.1Q – VLAN, IEEE 802.1p - Class of Service, IEEE 802.1D - Spanning Tree, IEEE 802.1w - Rapid Spanning Tree, IEEE 802.1s - Multiple Spanning Tree, IEEE 802.3ad - Link Aggregation Control Protocol (LACP), IEEE802.1v - Protocol VLAN, IEEE 802.1AB - LLDP (Link Layer Discovery Protocol), IEEE 802.1X - Access Control
Interface	Number of Port: 50 10/100/1000Base RJ-45 Port : 50, Auto-negotiation, Auto MDI/MDIX 10G SFP+ : 2
Performance	Switching Capacity: 136G bps MAC Address Table Size: 64K Forwarding Rate: 74.4Mpps Packet Buffer: 64Mb
L2 Features	Flow Control: 802.3x (Full-duplex)ort/ Back-Pressure (Half-duplex) Spanning Tree: IEEE 802.1D-2004(Includes IEEE 802.1w): Rapid Spanning Tree Protocol 802.1s Multiple Spanning Tree Protocol Loop Detection VLAN: IEEE 802.1Q Tagged Based, Max. VLAN Group: 4K QinQ Port-based VLAN Voice VLAN Private VLAN MVR MAC-Based VLAN Protocol-Based VAN Link Aggregation: IEEE 802.3ad with LACP: 26 trunks/ up to 8 port per trunk Static Trunk: 26 trunks/ up to 8 port per trunk Max. Group:26 Max. Ports/Group:8 IGMP Snooping: IGMP Snooping v1/v2/v3 IPv6 MLD Snooping v1/v2 Queries support/ IGMP Filtering, IGMP Leave Proxy, Immediate Leave

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	Storm Control: Broadcast/ Multi-cast/ Un-known Unicast Jumbo Frame Support: 10K
PoE Features	802.3af/at Compliant Max. Power Output Per Port: 30W Power Consumption : 400W Current Sharing Internal Power: In PD Classification Power Management: Enable/Disable per-port Priority Setting per-port Overloading Protection per-port Power Level Setting per-port
QoS Features	Number of Priority queue: 8 queues/ port Scheduling for priority queue : WRR/Strict Priority scheduling/Hybrid CoS: 802.1p/ IP Precedence/ IP TOS Precedence IP DSCP/ Port based Priority Rate Limiting: Ingress/Egress: 1Kbps/ 1pps granularity DiffServ (RFC2474) remarking
Security	User Name / Password Protection User Privilege: up to 15 levels IEEE 802.1x: Port-based Access Control IP Source Guard MAC Based Authentication Web-based Authentication HTTPS SSHv2 RADIUS: Authentication/ Accounting TACACS+: Authentication ACL (Access control list)
Management	Command Line Interface (CLI) Web Based Management Telnet Access Management Filtering: SNMP/ WEB/SSH/TELNET/ SNMP: v1/v2c/v3 RMON: RMON (1,2,3, & 9 groups) DHCP: Client/ Relay/ Option82/ Snooping Event/Error Log: Local Flash/ Remote Server Software Download/ Upgrade: HTTP Configuration Download / Upload sFlow Port Mirroring: One to One/ Many to One Remote Ping NTP/LLDP UPnP EEE Configuration Cable Diagnostics IPv6 Configuration
Power Input	100~240VAC
Mechanical	Dimension mm(H*W*D) : 44*440*331 Weight : 3.0 kg

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Operating Temperature	0 to 40°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	CE, FCC Class B Safety: UL (UL60950-1), CB(IEC60950-1)

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