

10-Port Gigabit Managed PoE Switch



Product Highlights

- 8*1Gbps PoE ports+2*1Gbps SFP ports+1*Console port
- Support IEEE802.3, IEEE802.3x, IEEE802.3u, IEEE802.3ab, and IEEE802.3z network protocols
- Comply with IEEE802.3at (30W) and IEEE802.3af (15.4W) power supply standards
- Ethernet Ports support 10/100/1000Mbps self-adaptive
- Support PoE management and PoE watchdog
- The panel indicator LEDs will monitor the working status and assist in fault analysis
- Support 802.1x port authentication, AAA authentication, TACACS+authentication

Support WEB, TELNET, CLI, SSH, SNMP, RMON management



Hardware Features

Description	Specification
Model	POEM-82NSP-AT
Interface	8*1Gbps PoE ports 2*1Gbps SFP ports 1*Console port
Port Standard	IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet Fiber Standard) IEEE802.3x (Flow Control) IEEE 802.3az (Efficient and Energy saving Ethernet) IEEE 802.3ad (Link Aggregation) IEEE 802.1AB LLDP/LLDP MED (Link Layer Discovery Protocol) IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol (Fast Spanning Tree) IEEE 802.1Q (Virtual Local Area Network) IEEE 802.1p (VLAN Tag) IEEE 802.1X (User Authentication)
Switching Bandwidth	20Gbps
Packet Forwarding Rate	14.88Mpps
Packet Buffer	4.1Mbit
MAC Address Table	8K
Jumbo Frame	Support
VLAN	VLAN range 1-4094, maximum active VLAN is 256
Transmission Method	Store and Forward
PoE Standard	IEEE802.3af (15.4W) IEEE802.3at (30W)
PoE Port Output Voltage	DC 44-57V
PoE Ports	Ports 1-8 PoE power output <30W
PoE Power Budget	100W
Power Supply	AC 100-240V 50/60Hz DC 52V 2.3A
Mainboard Power Consumption	12.03W



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Structure Information	Product Dimensions: 268*181*44mm Packaging Dimensions: 312*262*84mm Product Net Weight: 1.2KG Product Gross Weight: 1.7KG
Packing Information	Carton Dimensions: 540*435*332mm Packing Quantity: 10PCS Packing Weight: 18KG
Package Contents	Switch 1pcs, Power Cord 1pcs, Manual 1pcs, Certificate of Inspection 1pcs, Rack-mounting kit 1 pair
Fan Quantity	0
Installation	Desktop, Rack-mounting
Surge Protection	Port Surge: Common mode 6KV, Differential mode 2KV Electrostatic ESD: Air 8KV, Contact 6KV (Class C)
Operating Temperature	0~40°C
Storage Temperature	-40~70°C
Operation Humidity	10%~90%, <u>non-condensing</u>
Storage Humidity	5%~95%, <u>non-condensing</u>
PWR Red LED	On: Powered on Off: Powered off
Ports 1-10 Green LED	On: 10/100/1000Mbps Link normal Off: Link blocked Flashing: Data transmitting
SYS Green LED	Flashing: System startup in progress <u>On</u> : The system is running normally
PoE Green LED	On: PoE powered on Off: PoE powered off
Reset	Long press for 6 seconds to restore factory settings



Description	Specification
L2+ Function	
IPv4	IPv4 VLAN Interface IPv4 Static Routes ARP
IPv6	IPv6 VLAN Interface IPv6 Static Routes IPv6 ND
L2 Function	
Port	Port Switch configuration Port Description configuration Port Speed configuration Port Duplex configuration Port Flow Control configuration Jumbo Frame EEE Fiber Module (DDM)
Link Aggregation	Support load balance policy; Base on MAC and IP-MAC
Storm Control	Boardcast suppression Unknown Multicast Unknown Unicast
Port Mirroring	One to one monitor Many to one monitor Ingress/Egress/Both Up to 4 session groups
Port Security	MAC Address Constraints Port Security MAC Address Protect/Restrict/Shutdown
Port Isolation	Support
Port Rate-limit	Support
Loopback Detection	Support



VLAN	Access/Trunk/Hybrid
	VLAN Tunnel (Q-in-Q Tunnel)
	VLAN range 1-4094, maximum active VLAN is 256
	Voice VLAN
	MAC VLAN
	Surveillance VLAN
	Protocol VLAN
MAC Address	GVRP
	Dynamic MAC address
	Static MAC address
Spanning Tree Protocol	Filtering MAC Address
	STP/RSTP/MSTP
	BPDU Filter
	BPDU Guard
LLDP	Edge Port
	LLDP
Multicast	LLDP MED
	IGMP Snooping
	IGMP V1/V2/V3
	Router Port
	Static IGMP group address
	IGMP groups filtering
	Querier
QoS	MLD Snooping
	MVR
	Traffic classification based, Strict priority and WRR
	Port Priority
	802.1P Priority
	IP TOS Priority
	IP DSCP Priority



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ERPS	Only SFP port
PoE	PoE Temperature PoE Type/Level/Power/Voltage/Current query
PoE Configuration	PoE Switch Configuration PoE Watchdog Configuration PoE power AF/AT adaptation
PoE Schedule	Support
PoE Port Timer Reboot	Support
Services	
DHCP	DHCP Server IP Pool Static Binding Port Static Binding DHCP Relay
Access Protocol	HTTP HTTPS Telnet SSHv2 Manager ACL Session Timeout Password Retry Count Silent Time
Security	
AAA	RADIUS TACACS+ 802.1X Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN Option 82 Circuit ID



IP Source Guard	Support
Dynamic ARP Inspection	Support
DoS	Support
ACL	MAC ACL
	IPv4 ACL
	IPv6 ACL
Diagnostics	
Syslog	Logging Message
	Remote Server
Ping	Support
Traceroute	Support
Copper Test	Support
UDLD	Support
Port Statistics	Support
Equipment Management	
Manager Access	Console
	HTTP/HTTPS
	Telnet
	SSH
	SNMP
	Static Address
Manager IP	DHCP Client
	Support IPv4 and IPv6 address
	Manager VLAN
	DNS
Time Synchronization	SNTP
	Manual Time
SNMP	V1/V2C/V3
	Community
	V3 User
	Group
	Trap Host



SNMP MIB	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet MIB
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	RFC 2863 Interface MIB
	LLDP
	Private MIB

RMON	Statistics
	History Configuration
	Event Configuration
	Alarm Configuration

User Management	Support
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Firmware Management	Firmware upgrade
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Configuration Management	Upload and download
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Save	Support
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Restart	Support
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Factory Defaults	Support
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Standard Compliance

IEEE 802.3x flow control and back pressure

IEEE 802.3ad port trunk with LACP

IEEE 802.1D Spanning Tree Protocol

IEEE 802.1w Rapid Spanning Tree Protocol

IEEE 802.1s Multiple Spanning Tree Protocol

IEEE 802.1p Class of Service

IEEE 802.1Q VLAN tagging

IEEE 802.1x Port Authentication Network Control

IEEE 802.1ab LLDP

IEEE 802.3af Power over Ethernet

IEEE 802.3at Power over Ethernet Plus

RFC 768 UDP

RFC 793 TFTP

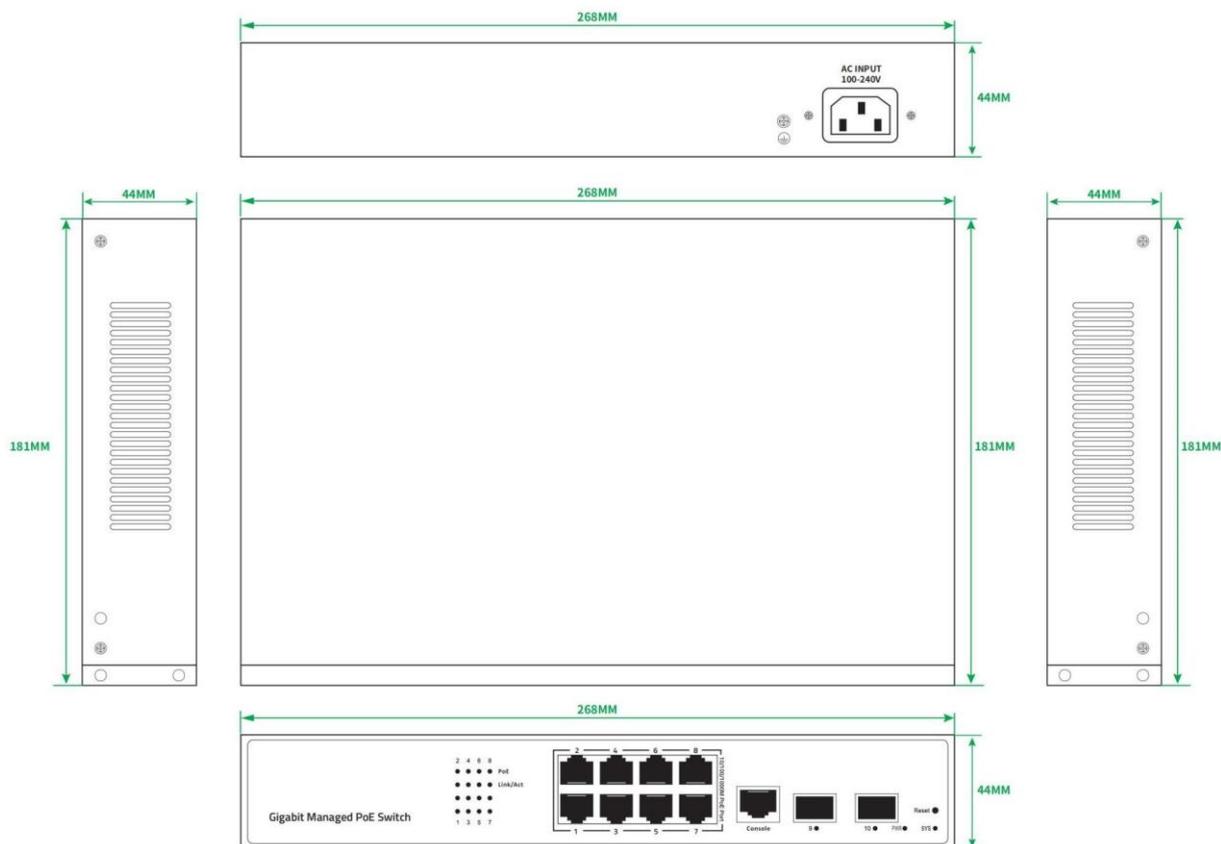
RFC 791 IP



Software Features

Description	Specification
RFC 792 ICMP	
RFC 2068 HTTP	
RFC 1112 IGMP v1	
RFC 2236 IGMP v2	
RFC 3376 IGMP v3	
RFC 2710 MLD v1	
RFC 3810 MLD v2	

Product Structure Diagram



Mounting ear diagram (Standard, support to install on the cabinet)

Unit of size: mm

Rack mounting ears

