



Prestel NS3-SDV-8C10-150P

L3 Managed 10G Power over Ethernet Switch



[DATASHEET](#)

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Description

The NS3-SDV-8C10-150P is a 13" 8 ports full 10G L3 Managed POE Switch. It provides 8 10Gbps Auto-Negotiation RJ45 ports. All 8 ports support Auto MDI/MDIX functions which include 4/8 ports with POE function. The POE ports can automatically detect and supply power for the IEEE802.3af and IEEE802.3at compliant Powered Devices (PDs), like VOIP Phone, PoE APs, IP Phones, IP Cameras, etc.

The NS3-SDV-8C10-150P is a 13"l metal-shell device which is useful for the small office, home and the IP solution project using. All POE ports support both IEEE802.3af and IEEE802.3at Standard; each port can output 30W max.

Features

- IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3at
- Provides 8 10GBase-TX ports
- Provides 8 PoE injector
- Build-in power supplies, 150W
- High back-plane bandwidth 160Gbps
- Cutting-edge Realtek Chipset
- Energy efficient external power adapter
- Support QoS, DHCP, BGP, VRRP, QinQ, etc.
- Support WEB/CLI/SNMP/SSH for Flexible Operation
- Support SSH, ACL, AAA, 802.1X, RADIUS, TACACS+, etc. for Security
- IPv4/IPv6 Dual-Stack for Future Network Expansion

Specifications

Attributes	
Networking Interfaces	8x10Gb RJ45
Management Interface	Console
LED Indicators	Power, System, Link/Act
Performance	
Switching Capacity	160 Gbps
Forwarding Capacity	119 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	12 Mbit
RAM for CPU	1 Gbit
Flash Memory	256 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16K
ACL Table	512
VLAN Quantity	4K
VLAN Interface	1K
Multicast groups	1K
Routing Host	2K IPv4 or 512 IPv6
Routing Entries	512 IPv4 or 128 IPv6
Port Queues	12 Mbit
PoE Budget	130W
Physical	
Dimensions	270 x 200 x 44 mm
Weight	
Operating Temperature	0 to 40℃
Storage Temperature	-10 to 70℃
Operating Humidity	5 to 95% Noncondensing
Max. Power Consumption	Including PoE Output: 150W Excluding PoE Output: 20W
Max. Power Consumption	20W
EMC Safety	FCC, CE, RoHS
Power over Ethernet	
PoE Interfaces	Ports 1-4 or 1-8
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W
PoE Voltage	52VDC (Depend on Power Adapter)
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)
Port Configuration	
Enable and Disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed
Flow Control	Support IEEE802.3x full-duplex

	Support half-duplex backpressure
Storm Control	Support broadcast, multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit
Link Aggregation	Support manual Link Aggregation Support LACP Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into isolated protected port from each other
MAC Configuration	
MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Support limit the number of MAC-addresses Learning per port
VLAN Configuration	
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
Reliability Protocol	
Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
L3 Routing	
Static ARP & Dynamic ARP	Support
Static Routing	Support
Policy Routing	Support
RIP	Support RIP v1/v2
OSPF	Support OSPF v2
VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support
IGMP Querier	Support
IGMP Filter	Support
MVR	Support
GMRP	Support
Access Control List (ACL)	
Based on Standard IP	Support

Based on Extend IP	Support
Based on MAC IP	Support
Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support
Quality of Service (QOS)	
Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(DiffServ)	Support
DHCP	
DHCP Client	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
DHCP Snooping	Support
Security	
Administrative Security	Support start and end TELNET, WEB and SNMP serve Support TELNET, WEB and SNMP serve binding with Standard IP ACL Support control the number of user for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between static configuration IP, MAC and Port
AAA	Support 802.1x protocol Support RADIUS protocol Support RADIUS server authentication authorization and bill Support MAC-based 802.1X authentication. Support 802.1x guest VLAN
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC port binding Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever
Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing
Management Feature	
CLI Management	Support serial port management Support TELNET management Support SSH management
WEB Management	Support
SNMP Management	Support SNMP protocol Support SNMP TRAP Support standard and private MIB
User management	Support multi-user management
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support
Configuration Download / Upload	Support
Upgrade Firmware	Support
Timer Management	Support local timer management Support SNTP protocol get clock

Debugging Tools	
PING	Support
TRACEROUTE	Support
TELNET Client	Support
Package List	
Switch	1pcs
User Manual	1pcs
Power Cord	1pcs
Power Adapter	1pcs
DB9 to RJ45 Cable	1pcs
Rubber Feet	4pcs