

Niveo Professional SDVoE Switches

NRS10G8P

8 Port 10Gb PoE+ Layer 3 SDVoE-ready switch,



FEATURES

The Niveo Professional NRS10G8P is a L3 managed switch equipped with 8 100M/1000M/2.5G/5G/10Gbps auto-sensing RJ45 ports.

All RJ45 Ports support the 802.3af/at (PoE+) standard, provide total PoE power of 100W.

With abundant L3 management features supported, the NRS10G8P is capable of delivering high throughput to even the most demanding edge-of-network workgroups, while in small networks it can act as a backbone for Gigabit switches and high-speed servers.

The NRS10G8P is designed to support audio and video streaming and SDVoE integrations.

Key Specifications

- 8 100M/1000M/2.5G/5G/10Gbps RJ45 ports.
- 8 RJ45 ports support 802.3af/at.
- Supports SDVoE
- Support IEEE 802.1Q VLAN, QoS, ACL, SSL.
- Support Spanning Tree, Multicast IPV6, SNMP. Support 802.1X certification.
- Support ERPS ring network. Support RSTP/MSTP spanning tree.
- Supports Port Security, Port Monitoring, and Port Isolation.
- Supports Quadruple binding, ARP/IP/DoS protection.

HARDWARE SPECIFICATIONS

Power Supply	AC 100-240V 50/60Hz
Standards	IEEE 802.3/802.3u/802.3ab/802.3bz/802.3x/802.3cb/802.3af/802.3at
Ports	8 x 100M/1000M/2.5G/5G/10Gbps RJ45 ports, 1x Console port
Indicators	8 link/act indicators, 8 10G speed indicators, power input indicator, system operation indicator.
Network Media (Cable)	100BASE-TX: UTP/STP of Cat. 5 or above (MAX 100m) 1000BASE-T: UTP/STP of Cat. 5e or above (MAX 100m) 2.5GBASE-T: UTP/STP of Cat. 5e or above (MAX 100m) 5GBASE-T: UTP/STP of Cat. 5e or above (MAX 100m) 10GBASE-T: UTP of Cat 6 (MAX 55m) or STP of Cat 7 (MAX 100m)
Dimensions	291*200*45 mm
PoE port	8 802.3at/af standard POE
PoE Pin Definition	1/2(+), 3/6(-)
PoE power	100W
Transfer Method	Store-and-Forward
MAC Address Table	16K
Switching Capacity	160Gbps
Packet Forwarding Rate	119.04Mpps
Packet Buffer	12Mbit
Jumbo Frame	12KBytes
Environment	Operating Temperature: 0°C ~45°C (0°F~113°F) Storage Temperature: -40°C ~70°C (-40°F ~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~95% non-condensing

SOFTWARE SPECIFICATIONS

L3 Switching Features	.Static Routing - IPv4/IPv6
	.Address Resolution Protocol (ARP) - Static ARP
L2 Switching Features	.16K MAC Address Table
	.12K Jumbo Frame
	.Flow Control .802.3x (Full-duplex) .Back-Pressure (Half-duplex)
	.Spanning Tree .IEEE 802.1D (STP) .IEEE 802.1w (RSTP) .IEEE 802.1s (MSTP)/16 instances .Auto Edge Port .BPDU Filtering .ERPS
	.Link Aggregation .IEEE 802.3ad LACP .Static Trunk .Max 8 Group .Max 8 Ports/Group .Traffic Load Balancing
VLAN	.Surveillance VLAN - 16 OUI Mode (Auto/Manual)
	.Voice VLAN - 16 OUI Mode (Auto/Manual)
	.QinQ (IEEE 802.1ad) - Basic
	.GARP VLAN Registration Protocol (GVRP)
	.4096 Static VLAN/Port-based
	.IEEE 802.1Q Tagged-based
	.8 groups Protocol-based
	.256 MAC-based
Multicast	.Common .256 Multicast Groups .Immediate Leave .Static/Forbidden Router Port .Static/Forbidden Forward Port .128 profiles Filtering .Throttling
	.IGMP Snooping

	.IGMP v1/v2 .IGMP v3 Basic (BISS) .IGMP v2/v3 Querier
	.MLD Snooping - MLD v1/v2
	.Multicast VLAN Registration (MVR) - IPv4
Quality of Service (QoS)	.Trusted QoS/Priority 8 Queue
	.Queue Scheduling .WRR .WFQ .Strict Priority .Hybrid(WRR+SP or WFQ+SP)
	.Class of Service .Port-based - 802.1p .IP TOS Precedence .IP DSCP
	.Rate Limit - Port-based (Ingress/Egress)
Access Control List (ACL)	.ACL Type - L2/L3/L4 .512 MAC-based .512 IPv4-based .512 IPv6-based
	.PoE Function .Power .Current .Voltage .PoE Watch Dog
	.Access Rules - 1024
	.AAA Authentication
	.8 TACACS+
	.8 RADIUS
	.Authentication Manager .IEEE 802.1X .MAC Auth .Web Auth .Guest VLAN .Port-based .Host-based
	.Account Manager
	.Local Authenticatoin

Security	.8 Multiple User Account .Multi-Level Security (Manager/Operator) .Password Recovery Procedures
	.Management Access .Management VLAN .256Management ACL
	.SSL .SSLv2 .SSLv3 .TLSv1
	.WebUI - HTTPS
	.CLI - SSH v1/v2
	.Port Security - 256 Dynamic Lock
	.Storm Control .Broadcast .Unknown Multicast .Unknown Unicast
	.Spanning Tree - BPDU Guard
	.Protected Port (Port Isolation)
	.Black Hole MAC
	.CPU Defence Engine
	.DoS Prevention
	.DHCP Snooping (with Option 82)
	.Dynamic ARP Inspection
	.256 IP Source Guard
	.IP/MAC/Port Binding (IMPB)
	.Dynamic VLAN Assignment
IPv6	.IPv6 Host .Auto Configuration .Static IPv6 Address and Prefix Length .Static IPv6 Default Gateway .IPv6 Neighbor Discovery (ND) .IPv6 Duplicate Address Detection .ICMPv6
	.IPv6 Application .HTTP/HTTPS .TELNET .SSH .SNMP .TFTP

	.Syslog .PING .DHCPv6
Management	.CLI .3 sessions Console .3 sessions Telnet (RFC854)
	.WebUI - HTTPS
	.SNMP(v1,v2c,v3)
	.File Management .Firmware Upgrade/Backup .Dual Images .Configuration Download/Backup .Multiple Configurations
	.Upload/Download .TFTP (RFC783) .HTTP .UART
	.Time Management .Local .SNTP
	.Port Management .Friendly Port Name (Port Description) .Error Disabled Recovery
	.Line Management .Console .Telnet (RFC854) .SSH v1/v2
	.DHCP - Client
	.DNS - Client
	.Software Reset Button
	.IEEE (802.3az)
	.32 entries / type RMON Management
Discovery	.IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	.ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
	.UDLD
	.Mirroring - 4 sessions port-based (Many to One)
	.Syslog (RFC3164)
	.Local RAM .Local Flash

Diagnostics	.8 Remote Server
	.System Diagnostics
	.CPU Utilization
	.Memory Utilization
	.Port Utilization
	.Technical Support Log
	.Port Diagnostics
	.Cable Test
	.Fiber Module Status
	.Network Diagnostics
MIB	.Ping Test
	.Traceroute
	.RFC1213 MIBII (System & Interface groups)
	.RFC2819 RMON I (1,2,3, & 9 groups)
	.RFC1215 Generic Traps
	.RFC1493 Bridge
	.RFC2674 Bridge MIB Extensions
	.RFC2737 Entity
	.RFC3635 Ethernet-Like
	.RFC2863 Interface Group
	.SNMP-Community-MIB
	.SNMPv3-MIB



WHO IS NIVEO PROFESSIONAL?

- ⚙️ Manufacturer of AV-Centric Networking Equipment
- 💡 Pioneer in the AV-Industry
- ***** 20 Years of AV-Centric Innovation!
- 🌐 Support around the globe, Delivery around the globe

**WE MAKE
NETWORKING
EASY!**

**AV-Centric
Switches**



**AVB/Milan
Switches**



**Power
Products**



**Wireless &
Routers**



Accessories



Niveo Professional

Olympia 2D, 1213NT, Hilversum, The Netherlands |
☎️ +31 (0) 85 060 4566 | ✉️ info@niveoprofessional.com
💻 www.niveoprofessional.com