



NGS-IPV16/NGS-IPV24

(16/ 24 Rear Port Managed Video-over-IP-Switch)

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Product Specification

Zero Config Video over IP

The NGS-IPV16/24 are designed to make any Video-Over-IP project as simple as can be. Simply unpack, plug in and go! Power most standard POE+ encoders and decoders. The built-in remote management software allows for easy access and monitoring of both switch and encoders / decoders. The switch supports most 1-Gigabit based video-over-IP systems.

2 Gigabit SFP Open Slots

The NGS-IPV16/24 is a 18/ 26-port design. It supports 2 additional 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.

Additional Full Layer 2/3 Management Features

For advanced set ups, installers have access to the switches full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR... advanced VLAN 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

The 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.

Specifications

Interface		
Number of Port		26
10/100/1000Base RJ-45 Port: 24, Auto-negotiation, Auto MDI/MDIX		•
100/1000Base-X SFP		2
System Performance		
Packet Buffer		4Mb
MAC Address Table Size		8K
Switching Capacity		32/52Gbps
Forwarding Rate		26.838.7Mpps
PoE Features		
802.3af/at Compliant		•
Max. Power Output Per Port:		30W
Power Consumption		310W Current Sharing
PoE Management	Enable/Disable per-port	•
	Priority Setting per-port	•
	Maximum Power per-port/system	•
	PoE Mode Setting per-port	•
	PD Classification, PoE Status	•
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	•
	IEEE 802.1s Multiple Spanning Tree Protocol	•
Loop Detection		•
VLAN	IEEE 802.1Q Tagged Based, Max. VLAN Group	4K
	QinQ	•
	Port-based	•
	Voice VLAN	•
	Private VLAN	•
	MVR	•
	MAC-Based VLAN	•
Protocol-Based VAN	•	
Link Aggregation	Static Trunk & IEEE 802.3ad with LACP	•
	Max. Group	13
	Max. Ports/Group	16
IGMP Snooping	IGMP Snooping v1/v2/v3	•
	IPv6 MLD Snooping v1/v2	•
	Querier support/ IGMP Filtering, IGMP Leave Proxy, Immediate Leave	•
		•
Storm Control (Broadcast/Multi-cast/Un-known Unicast)		•
Jumbo Frame Support		9K
QoS Features		
Number of priority queue		8 queues/port
Rate Limiting		Ingress/Egress: 1KBps/1pps granularity
DiffServ (RFC2474 Remarking)		•
Scheduling for priority queue		WRR/Strict Priority scheduling/Hybrid
CoS	802.1p/ IP Precedence/ IP TOS Precedence	•
	IP DSCP/ Port based Priority	•
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 (1,2,3,&9 groups)	•
DHCP (Client/Relay/Option82/Snooping)	•
Event/Error Log	•
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	•
Mechanical	
Power Input	100~240VAC
	PoE: max. 500W
	System: max. 21.5W
Power Consumption	
Dimension (H*W*D)	45*440*330mm / 1.77*17.32*12.99 inch
Weight	4.7 KG / 10.36 lbs
Operating Temperature	0~40°C/32~104 °F
Humidity	5~90% (non-condensing)
Certification	FCC Class A, CE, c-UL-us (Q4-2013)
Standards	
Ethernet IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3az EEE	•
PoE IEEE 802.3at PoE+	•
IEEE 802.3x - Flow Control	•
IEEE 802.1Q - VLAN	•
IEEE 802.1v - Protocol 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)	•
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	•
IEEE 802.1X - Access Control	•