





Niveo Professional NGS-Series Enterprise Switches

L2/3 Managed Gigabit Switch (Rear and front port) 10-18-26-50-52 Ports L2/3 Managed Gigabit PoE+ Switch (Rear and front port) 10-18-26-50-52 Ports

Contact: +91 7400434543 Mail: contact@qtechdistribution.com www.qtechdistribution.com

Introduction

The Niveo Professional NGS-Series Enterprise Switches offer a wide range of configurations, designed for Audio/Video, Security and Broadcast integrations.

True Enterprise Grade

The switches are designed and build with chipsets for industrial and enterprise application, made by US Chip manufacturers.



- Higher performance, extreme stability
- Capable of running in toucher conditions
- Extreme endurance

Convenient Design for AV and IT

The NGS-Series offers switches in both front and rear port configurations for easy patching and clean looking finish in AV-racks:







1 AV-Design Switches

Supporting Video-Over-IP Solutions: Small to extremely large

The Niveo Managed NGSM(E)-Switches are optimized for Video-over-IP, providing multicasting with IPGM Querier and Fast Leave to support very crisp switching of channels. The switches support any mainstream Video-over-IP Solution:













With the advanced Niveo Professional Virtual Stacking feature, the switches support Video-over-IP designs up to 2300-endpoints!

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QSC Q-SYS Audio/Video Qualified

The entire managed switch series has been qualified for QSC Q-SYS audio and video and is currently the only vendor that can make that claim.



Supporting Audio Distribution

All managed Niveo switches support most common industry standard Audio and Video distribution Protocols:



Unparalleled PoE-features: No more locked up PoE devices!

No more locked up Control Panels, frozen IP Cams or non responding microphones! No more customer complaints and Physical resets!

Many PoE-powered devices are prone to lock ups due to power fluctuations. With the Niveo Professional NGSM-PoE switches, this is no longer an issue. The switches prevent most freezes and automatically corrects them:

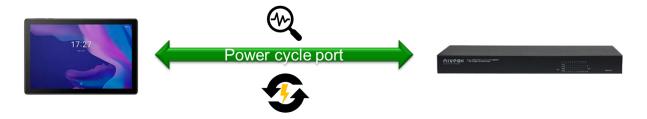
Line Filtering

The unique Niveo line-filtering in the Managed PoE+ switches remove most power fluctuation and prevents most lock ups of PoE-devices.



Self-Healing PoE

The Niveo Self-Healing PoE feature automatically monitors any device it gives PoE power to and, in case of a locked-up device, it will automatically power cycle that particular port, correcting over 99% of these issues.



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Power Scheduling

Installing a network with energy saving targets? The Niveo Professional Switches help out with the Power Scheduling feature. The easy to use scheduler let you make the switch turn down PoE on 'idle' hours and fire it up when needed.

Reduced Fan Noise

The Niveo Professional Switches actively manages the fan speeds. Reducing the speed when possible to limit the noise to a minimum and rev it up when needed.

Check the cables

Experiencing unexpected loss of Data or Power or you do not trust existing category cable?

The Niveo VeriPhy feature can check the integrity of connected Category cables. The switches can check through the resistance on the cable the likelihood of compromised capacity.

Unparalleled Quality and Warranty

All Niveo NGS-switches are designed and constructed with true enterprise grade chipsets and components, to assure extreme durability and reliability needed for corporate networks. With MTTF measures well over 100.000 hours, these switches are designed to compete with Cisco Catalyst, Extreme Networks and Juniper switches and to stand out by great length against retail grade products from companies like Cisco SMB, Netgear, TP-Link and Luxul.

The manufacturing and quality standards go above and beyond its peers to assure the highest quality products. Every switch that leaves the factory goes through a rigid 72 hour stress testing, to make sure all functions meet the requirements.

Niveo Professional is proud to offer 10 Years limited warranty upon registration of the unit.

Ultimate Installer Support

All Niveo Switches come included with lifetime access to software updates and support, without any additional costs for care packs.

The Niveo Switches come the ultimate installer support, making networking design and configuration a light breeze.

Support team is proud to assist integrators with:

- Network design advise
- Configuration assistance
- Creating configuration files
- Trouble shooting

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Enterprise Switches Selection Table

Switches:	Gigabit Ports	Gigabit Fiber Ports	10Gb Fiber Ports (SFP+)	Virtual Stacking	PoE+	PoE+ Budget	Management	Supports Dante AES67 Cobranet	Supports Q- sys	Rear-ports	Supports HD-Over-IP	Warranty in years
NGSE8H	8				•	130W						10
NGSE8H-AV	8				•	130W				•		10
NGSE8Hx	8				•	235W						10
NGSE8Hx-AV	8				•	235W				•		10
NGSM8T2	8	2					L2/3	•	•		•	10
NGSME8H	8	2			•	130W	L2/3	•	•		•	10
NGSME8H-AV	8	2			•	130W	L2/3	•	•	•	•	10
NGSME8Hx	8	2			•	235W	L2/3	•	•		•	10
NGSME8Hx-AV	8	2			•	235W	L2/3	•	•	•	•	10
NGS16TP	16							•				10
NGSM16T2	16	2					L2/3	•	•		•	10
NGSME16T2H	16	2			•	250W	L2/3	•	•		•	10
NGSME16T2H-AV	16	2			•	250W	L2/3	•	•	•	•	10
NGS24TP	24							•				10
NGS24TP-AV	24							•		•		10
NGSM24T2	24						L2/3	•	•		•	10
NGSM24T2-AV	24						L2/3	•	•	•	•	10
NGSME24T2H	24			•	•	500W	L2/3	•	•		•	10
NGSME24T2H-AV	24			•	•	500W	L2/3	•	•	•	•	10
NGSM48T2	48		2	•			L2/3	•	•		•	10
NGSME48T2H	48		2	•	•	500W	L2/3	•	•		•	10
NGSM48T4	48		4	•	•		L2/3	•	•		•	10
NGSME48T4H	48		4	•	•	520W	L2/3	•	•		•	10
NGSME48T4Hx	48		4	•	•	1200W	L2/3	•	•		•	10
NGSME48T4H-RD	48		4	•	•	2*520W	L2/3	•	•		•	10
NGSME48T4Hx-RD	48		4	•	•	2*1200W	L2/3	•	•		•	10

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Specifications Managed PoE+ Switches

Specifications Man	-6-								
Interface	NGSME8H(-AV)	NGSME8x(-AV)	NGSME16T2H(-AV)	NGSME24T2H(-AV)	NGSME48T2H	NGSME48T4H	NGSME48T4Hx	NGSME48T4H-RP	NGSME48T4Hx-RP
10 Base-T/100 Base-TX/1000 Base-T	8	8	8	24	48	48	48	48	48
RJ45 Ports 100/1000Base-SX/LX SFP Port	2	2	2	2					
10G SFP+ Slot	 -	_	_	_	2	4	4	4	4
Rear-port version available (-AV)	•	•	•	•					
Console Port for CLI Management			·L		1				
System Performance									
Packet Buffer			Mb				32Mb		
MAC Address Table Size			3K				32K		
Switching Capacity (Gbps)		20	36	52	136	1		76	
Forwarding Rate (Mbps)	14	.88	26.8	38.7	74.4	<u> </u>	130	0.94	
PoE Features IEEE 802.3 af/at	•		•		•				•
Number of PSE Ports	8	8	16	24	24	48	48	48	48
Max. PoE Budget (W)	130	235	250	500	500	520	1200	520	1200
Dual Power (Redundant)	130	255	230	300	300	320	1200	•	1200
External/Internal Power	1			ln:	ternal Po	wer			
Power Feeding Detecting Capability on PD	•	•	•	•	•	•	•	•	•
PD Alive Check	•	•	•	•	•	•	•	•	•
PD Classification	•	•	•	•	•	•	•	•	•
Power Management (per-port)									
Enable/Disable PoE	•	•	•	•	•	•	•	•	•
Priority Setting Per	•	•	•	•	•	•	•	•	•
Power Level Setting	•	•	•	•	•	•	•	•	•
Overloading Protection	•	•	•	•	•	•	•	•	•
L2 Features			T		T		ı		
Auto-negotiation	•	•	•	•	•	•	•	•	•
Auto MDI/MDIX Flow Control (duplex)	•	•	<u> </u>	_ •	<u> </u>	_ •	•		•
802.3x (Full)									
Back-Pressure (Half)	•	•	•	•	•	•	•		•
Spanning Tree								<u> </u>	
IEEE 802.1D (STP)	•	•	•	•	•	•	•	•	•
IEEE 802.1w (RSTP)	•	•	•	•	•	•	•	•	•
IEEE 802.1s (MSTP)	•	•	•	•	•	•	•	•	•
VLAN			L		L				
VLAN Group	4K	4K	4K	4K	4K	4K	4K	4K	4K
Tagged Based	•	•	•	•	•	•	•	•	•
Port-based	•	•	•	•	•	•	•	•	•
Voice VLAN				Voice	VLAN w	ith OUI	,		
Private Vlan	•	•	•	•	•	•	•	•	•
MVR	•	•	•	•	•	•	•	•	•
Mac-Based Vlan Protocol-Based Van	•	•	•	•	•	•	•	•	•
	•	•	<u> </u>	_ •	<u> </u>	· ·	•	•	•
Link Aggregation IEEE 802.3ad with LACP	•								
Static Trunk	•	•	•	•	•	•	•	•	•
Max. LACP Link Aggregation Group	5	5	5	13	26	26	26	26	26
Max. Port per Link Aggregation Group	8	8	8	16	8	8	8	8	8
IGMP Snooping									
IGMP Snooping v1/v2/v3					1024 IGI				
IGMP Static Multicast Addresses	1		Suppo	rts 1024	static mu	ticast add	dresses		
IPv6 MLD Snooping	1			O	1024 MI	_			

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IMI D Ctatic Multipopt Address of			C	4- 4004		4:41-			
MLD Static Multicast Addresses	•	1 _	Suppo	rts 1024 s	static mul	ticast add	resses	1 -	
Querier, Immediate Leave		•	<u> </u>	•	•	•	•	•	•
Storm Control (Broadcast/Multi-cast/Un-	•	•	•	•	•	•	•	•	•
known Unicast)					0.01/D				
Jumbo Frame Support					9.6KB				
QOS Features									
Number of priority queue		•			. 8	•			
Rate Limiting Ingress 1KBps/1pps	•	•	•	•	•	•	•	•	•
Rate Limiting Egress 1KBps/1pps	•	•	•	•	•	•	•	•	•
CoS									
IEEE 802.1p	•	•	•	•	•	•	•	•	•
IP ToS precedence, IP DSCP	•	•	•	•	•	•	•	•	•
	•	•			•	•	•	•	
DiffServ (RFC2474 Remarking)	•	•	•	•	•	•	•	•	•
Scheduling (WRR, Strict, Hybrid)	•	•	•	•	•	•	•	•	•
3(, , , , , , , , , , , , , , , , , , ,		1		l	1	1	l .	1	
MANAGEMENT									
Command Line Interface (CLI)	•	•	•	•	•	•	•	•	•
Web Based Management	•	•	•	•	•	•	•	•	•
Telnet	•	•	•	•	•	•	•	•	•
Access Management Filtering									
SNMP	•						•		
WEB									
	•	•	•	•	•	•	•	•	•
SSH	•	•	•	•	•	•	•	•	•
TELNET	•	•	•	•	•	•	•	•	•
Firmware Upgrade via HTTP	•	•	•	•	•	•	•	•	•
Dual Firmware Images	•	•	•	•	•	•	•	•	•
Configuration Download/Upload	•	•	•	•	•	•	•	•	•
SNMP (v1/v2c/v3)	•	•	•	•	•	•	•	•	•
RMON (1,2,3,&9 groups)	•	•	•	•	•	•	•	•	•
DHCP (Client/Relay/Option82/Snooping)	•	•	•	•	•	•	•	•	•
System Event/Error Log	•	•	•	•	•	•	•	•	•
NTP/LLDP	•	•	•	•	•	•	•	•	•
Cable Diagnostics	•	•		•	•	•	•	•	
IPv6 Configuration	•	•		•	•	•	•	•	
Port Mirroring One to One/Many to One	•	•	•	•	•	•	•	•	•
	•				•			•	
sFlow									
Remote Ping	•	•	•	•	•	•	•	•	•
UPnP	•	•	•	•	•	•	•	•	•
EEE Configuration	•	•	•	•	•	•	•	•	•
Mechanical									
Power Input				10	00-240V <i>F</i>				
Dimension (H*W*D)	44*	330*220	mm				331 mm		
LED					PoE, Link)		
Operating Temperature	0~4	l5°C				0~40°C			
Storage Temperature	-20~	80°C				-20~90°C)		
Operating Humidity				5~90%	(non-con	densing)			
Weight	2.2	2Kg	2.5Kg	4.7Kg		- 5/	5.37Kg		
Certification		<u> </u>	, , ,	. 3	CE, FCC	;	<u> </u>		
Standard					, . 50				
IEEE 802.3 – 10Base-T	•		•	•			•		
IEEE 802.3u - 100Base-TX	•	•	•	•	•		•	•	•
IEEE 802.3ab - 1000Base-TX	•	•	•	•	•	•	•	•	•
IEEE 802.3ab - 1000Base-1	•	•	•	•	•	•	•	•	•
IEEE 802.32 - 1000 Base-5X/LX IEEE 802.3af - Power over Ethernet (PoE)	•	•	•	•		•	•	•	⊢ :
					•				
IEEE 802.3at - Power over Ethernet (PoE+)	•	•	•	•	•	•	•	•	•
IEEE 802.3az - Energy Efficient Ethernet	•	•	•	•	•	•	•	•	•
(EEE)									
IEEE 802.3x - Flow Control	•	•	•	•	•	•	•	•	•
IEEE 802.1Q - VLAN	•	•	•	•	•	•	•	•	•
IEEE802.1v - Protocol VLAN	•	•	•	•	•	•	•	•	•
IEEE 802.1p - Class of Service	•	•	•	•	•	•	•	•	•
IEEE 802.1D - Spanning Tree	•	•	•	•	•	•	•	•	•
IEEE 802.1w - Rapid Spanning Tree	•	•	•	•	•	•	•	•	•
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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	•	•	•	•	•	•	•	•	•
Security									
Management System User Name/Password Protection	•	•	•	•	•	•	•	•	•
User Privilege		I	Se	t user pri	ivilege up	to 15 Le	vel	I	
MAC Based Authentication	•	•	•	•	•	•	•	•	•
WEB Based Authentication	•	•	•	•	•	•	•	•	•
IEEE 802.1x Port-based Access Control	•	•	•	•	•	•	•	•	•
ACL (L2/L3/L4)	•	•	•	•	•	•	•	•	•
IP Source Guard	•	•	•	•	•	•	•	•	•
RADIUS (Authentication, Authorization,	•	•	•	•	•	•	•	•	•
Accounting)									
TACACS+	•	•	•	•	•	•	•	•	•
HTTP & SSL (Secure Web)	•	•	•	•	•	•	•	•	•
SSH v2.0 (Secured Telnet Session)	•	•	•	•	•	•	•	•	•
Virtual Stacking					•	•	•	•	•
MAC/IP Filter	•	•	•	•	•	•	•	•	•

Specifications Managed Switches

Interface	NGSM8T2	NGSM16T2(-AV)	NGSM24T2(-AV)	NGSM48T2	NGSME48T4
10 Base-T/100 Base-TX/1000 Base-T RJ45 Ports	8	16	24	48	48
100/1000Base-SX/LX SFP Port	2	2	2		
10G SFP+ Slot				2	4
Rear-port version available (-AV)	•	•	•	•	
Console Port for CLI Management			1		
System Performance					
Packet Buffer		4Mb		_	Mb
MAC Address Table Size		8K		32	2K
Switching Capacity (Gbps)	20	36	52	136	176
Forwarding Rate (Mbps)	14.88	26.8	38.7	74.4	130.94
L2 Features					
Auto-negotiation	•	•	•	•	•
Auto MDI/MDIX	•	•	•	•	•
Flow Control (duplex)					
802.3x (Full)	•	•	•	•	•
Back-Pressure (Half)	•	•	•	•	•
Spanning Tree					
IEEE 802.1D (STP)	•	•	•	•	•
IEEE 802.1w (RSTP)	•	•	•	•	•
IEEE 802.1s (MSTP)	•	•	•	•	•
VLAN	41.6	41.6		41.6	41.4
VLAN Group	4K	4K	4K	4K	4K
Tagged Based	•	•	•	•	•
Port-based	•	•	• \//. \A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	•
Voice VLAN		Voice		th OUI	1
Private Vlan	•	•	•	•	•
MVR Mac-Based Vlan	•	•	•	•	•
	•	-	•	•	•
Protocol-Based Van	•	•	•	•	•

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IEEE 802.3ad with LACP	I bala A sugar and bar					
Static Trunk	Link Aggregation				1	1 4
Max. LACP Link Aggregation Group 5 5 13 26 26 Max. Port per Link Aggregation Group 8 8 16 8 8 IGMP Snaoping v1/v2/v3 Supports 1024 ISIAI multicast addresses Supports 1024 static multicast addresses IGMP Static Multicast Addresses Supports 1024 static multicast addresses Querier, Immediate Leave Supports 1024 MLD groups Storm Control (Broadcast/Multi-cast/Unknown Unicast) 9.6KB Jumbo Frame Support 9.6KB QOS Features Supports 1024 static multicast addresses Number of priority queue 8 Rate Limiting Ingress 1KBps/1pps 8 Rate Limiting Ingress 1KBps/1pps 9.6KB CoS 1EEE 802.1p IP ToS precedence, IP DSCP • • • • • • • • • • • • • • • • • • •					_	-
Max. Port per Link Aggregation Group 8 8 16 8 8 8 8 8 8 8 8 8			-			_
IGMP Snooping	Max. LACP Link Aggregation Group	_	_		_	_
IGMP Snooping v1/v2/v3 Supports 1024 IGMP groups	Max. Port per Link Aggregation Group	8	8	16	8	8
IGMP Static Multicast Addresses Supports 1024 static multicast a						
IPV6 MLD Snooping						
MLD Static Multicast Addresses						
Querier, Immediate Leave						
Storm Control (Broadcast/Multi-cast/Unknown Unicast)		Suppor	rts 1024 s	static mul	ticast add	resses
Name		•	•	•	•	•
Jumbo Frame Support	Storm Control (Broadcast/Multi-cast/Un-	•	•	•	•	•
QOS Features Number of priority queue 8 Rate Limiting Ingress 1KBps/1pps	known Unicast)					
Number of priority queue 8 Rate Limiting Ingress 1KBps/1pps				9.6KB		
Rate Limiting Ingress 1KBps/1pps Rate Limiting Egress 1KBps/1pps CoS IEEE 802.1p IP ToS precedence, IP DSCP DiffServ (RFC2474 Remarking) Scheduling (WRR, Strict, Hybrid) MANAGEMENT Command Line Interface (CLI) Web Based Management Telnet Access Management Filtering SNMP WEB SSH TELNET Firmware Upgrade via HTTP Dual Firmware Images Configuration Download/Upload SNMP (v1/v2c/v3) RMON (1,2,3,89 groups) DHCP (Client/Relay/Option82/Snooping) System Event/Error Log NTP/LLDP Oable Diagnostics IPV6 Configuration Port Mirroring One to One/Many to One SFlow Remote Ping UPPP EEE Configuration Power Input Dimension (H*W*D) LED Operating Temperature O-45°C O-40°C Standard IEEE 802.3u - 1000Base-TX IEEE 802.3u - 1000Ba						
Rate Limiting Egress 1KBps/1pps CoS LEEE 802.1p IP ToS precedence, IP DSCP DiffServ (RFC2474 Remarking) Scheduling (WRR, Strict, Hybrid) MANAGEMENT Command Line Interface (CLI) Web Based Management Telnet Access Management Filtering SNMP WEB SSH TELNET Dual Firmware Images Configuration Download/Upload SNIMP (1/V2c/V3) RNON (1/2,3,89 groups) DHCP (Client/Relay/Option82/Snooping) System Event/Error Log NTP/LLDP Cable Diagnostics IPv6 Configuration Mechanical Person (Hw*b) Dimension (H*W*b) LED				8		
CoS	Rate Limiting Ingress 1KBps/1pps	•	•	•	•	•
IEEE 802.1p	Rate Limiting Egress 1KBps/1pps	•	•	•	•	•
PToS precedence, IP DSCP	CoS		·	·	•	•
PToS precedence, IP DSCP	IEEE 802.1p	•	•	•	•	•
MANAGEMENT	IP ToS precedence, IP DSCP	•	•	•	•	•
MANAGEMENT	,		t	t	1	1
MANAGEMENT	DiffServ (RFC2474 Remarking)	•	•	•	•	•
MANAGEMENT Command Line Interface (CLI) Web Based Management Telnet Access Management Filtering SNMP WEB SSH TELNET T		•	•	•	•	•
Command Line Interface (CLI) • • • • • • • • • • • • • • • • • • •			l	l		
Command Line Interface (CLI) • • • • • • • • • • • • • • • • • • •	MANAGEMENT					
Web Based Management		•	•	•	•	•
Telnet Access Management Filtering SNMP WEB SSH TELNET Firmware Upgrade via HTTP Dual Firmware Images Configuration Download/Upload SNMP (v1/v2c/v3) SNMP (v1/v2c/v3) System Event/Error Log NTP/LLDP Cable Diagnostics Port Mirroring One to One/Many to One SFlow Remote Ping UpnP EEE Configuration Power, Poe, Link/Act, SFP Operating Temperature Operating Temperature Operating Humidity Standard IEEE 802.3a - 10Base-TX IEEE 802.3a - 10Base-SX/LX		•	•	•	•	•
Access Management Filtering SNMP WEB SSH		-	•	•		
SNMP		-				
SSH						
SSH		-		•		
Firmware Upgrade via HTTP						
Firmware Upgrade via HTTP Dual Firmware Images Configuration Download/Upload SNMP (v1/v2c/v3) RMON (1,2,3,89 groups) DHCP (Client/Relay/Option82/Snooping) System Event/Error Log NTP/LLDP Cable Diagnostics IPv6 Configuration Port Mirroring One to One/Many to One sFlow Remote Ping UPnP Dimension (H*W*D) LED Operating Temperature Operating Temperature Operating Humidity Weight Ce, FCC c-UL-us Standard IEEE 802.3a - 1008ase-T IEEE 802.3a - 1000Base-TX IEEE 802.3a - 1000Base-TX IEEE 802.3a - 1000Base-TX IEEE 802.3a - 1000Base-TX IEEE 802.3a - 1000Base-SX/LX		-		•		-
Dual Firmware Images	IELINEI	<u> </u>		•		
Dual Firmware Images	Firmware Ungrade via HTTP					
Configuration Download/Upload •						•
SNMP (v1/v2c/v3) •						
RMON (1,2,3,89 groups) • • • • • • • • • • • • • • • • • • •	COMINGUIATION DOWNTOAU/OPTOAU					
DHCP (Client/Relay/Option82/Snooping)				-		
System Event/Error Log	NIVON (1,2,3,&9 groups)					
NTP/LLDP	Custom Funct/Funct Learn					
Cable Diagnostics • • • • • • • • • • • • • • • • • • •		ļ				
Port Mirroring One to One/Many to One						
Port Mirroring One to One/Many to One sFlow						
SFlow		•	•	•	•	•
Remote Ping		•	•	•	•	•
UPnP • <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>		•	•	•	•	•
The standard The				•	•	
Mechanical 100-240VAC Dimension (H*W*D) 44*330*220 mm 44*440*331 mm LED Power, PoE, Link/Act, SFP Operating Temperature 0~45°C 0~40°C Storage Temperature -20~80°C -20~90°C Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • • • • IEEE 802.3u - 100Base-TX • • • • • • IEEE 802.3ab - 1000Base-TX • • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • • •						•
Power Input	EEE Configuration	•	•	•	•	•
Dimension (H*W*D) 44*330*220 mm 44*440*331 mm LED Power, PoE, Link/Act, SFP Operating Temperature 0~45°C 0~40°C Storage Temperature -20~80°C -20~90°C Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • IEEE 802.3u - 100Base-TX • • • • • IEEE 802.3ab - 1000Base-TX • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • •						
Power, PoE, Link/Act, SFP			10	00-240V <i>P</i>	AC .	
Operating Temperature 0~45°C 0~40°C Storage Temperature -20~80°C -20~90°C Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • IEEE 802.3u - 100Base-TX • • • • • IEEE 802.3ab - 1000Base-TX • • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • •	Dimension (H*W*D)	44*330*				
Storage Temperature -20-80°C -20-90°C Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • IEEE 802.3u - 100Base-TX • • • • • IEEE 802.3ab - 1000Base-T • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • •	LED		Power, F	OE, Link	Act, SFP	
Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • IEEE 802.3u - 100Base-TX • • • • IEEE 802.3ab - 1000Base-T • • • • IEEE 802.3z - 1000 Base-SX/LX • • • •	Operating Temperature	0~45°C				
Operating Humidity 5~90% (non-condensing) Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 - 10Base-T • • • • • • • IEEE 802.3u - 100Base-TX • • • • • • • IEEE 802.3ab - 1000Base-T • • • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • • • •	Storage Temperature	-20~80°C		-20~	90°C	
Weight 2.2Kg 2.5Kg 4.7Kg 5.37Kg Certification CE, FCC c-UL-us Standard IEEE 802.3 – 10Base-T • • • • • • • IEEE 802.3u - 100Base-TX • • • • • • IEEE 802.3ab - 1000Base-T • • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • • •	Operating Humidity		5~90%			
Certification CE, FCC c-UL-us Standard IEEE 802.3 – 10Base-T •	Weight	2.2Kg	2.5Kg	4.7Kg	5.3	7Kg
Standard IEEE 802.3 – 10Base-T • • • • • • IEEE 802.3u - 100Base-TX • • • • • • IEEE 802.3ab - 1000Base-T • • • • • • IEEE 802.3z - 1000 Base-SX/LX • • • • • • •	Certification))		
IEEE 802.3 – 10Base-T	Standard					
IEEE 802.3u - 100Base-TX	IEEE 802.3 – 10Base-T	•	•	•	•	•
IEEE 802.3ab - 1000Base-T		•	•	•	•	•
IEEE 802.3z - 1000 Base-SX/LX • • • • •	IEEE 802.3ab - 1000Base-T	•	•	•	•	•
	IEEE 802.3z - 1000 Base-SX/LX	•	•	•	•	•
	IEEE 802.3af - Power over Ethernet (PoE)	•	•	•	•	•

IEEE 802.3at - Power over Ethernet (PoE+)	•	•	•	•	•
IEEE 802.3az - Energy Efficient Ethernet	•	•	•	•	•
(EEE)					
ÌEEE 802.3x - Flow Control	•	•	•	•	•
IEEE 802.1Q - VLAN	•	•	•	•	•
IEEE802.1v - 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	•	•	•	•	•
Security					
Management System User Name/Password	•	•	•	•	•
Protection	•	•	•	•	•
Protection User Privilege	• Se	• et user pr	• vilege up	• to 15 Le	• vel
Protection User Privilege MAC Based Authentication	• Se	et user pr	vilege up	•	vel
Protection User Privilege MAC Based Authentication WEB Based Authentication		et user pri	vilege up	• to 15 Le	
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4)	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization,	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization, Accounting)	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization, Accounting) TACACS+	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization, Accounting) TACACS+ HTTP & SSL (Secure Web)	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization, Accounting) TACACS+ HTTP & SSL (Secure Web) SSH v2.0 (Secured Telnet Session)	•	•	•	•	•
Protection User Privilege MAC Based Authentication WEB Based Authentication IEEE 802.1x Port-based Access Control ACL (L2/L3/L4) IP Source Guard RADIUS (Authentication, Authorization, Accounting) TACACS+ HTTP & SSL (Secure Web)	•	•	•	•	•