

DIREKTRONIK

Dataprodukter utöver det vanliga

❖ Overview

outdoor PoE switch. It is integrated of PoE switch, optical fiber tray, air breaker, lightning arrester etc. It has IP55 protection grade, can be for outdoor using. It can be applied for surveillance monitoring, forest monitoring, etc.

❖ Picture



❖ Features

- ❖ AC220V mains power input, 200W DC52V power module inside.
- ❖ With 8*10/100/1000M PoE downlink ports and 2*1000M SFP uplink ports, with L2 network management.
- ❖ Supports 8 port PoE power each up to 30W.
- ❖ Supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast, ports management and PoE management;
- ❖ 6KV surge protection, 6KV contact / 8KV air ESD protection.
- ❖ The box adopts waterproof (protection level IP55), anti-rust treatment, suitable for long time outdoor use.

❖ Hardware specification

Parameter	Specifications
Power supply	AC100-240V, 50/60Hz
Consumption	Self-consumption<15W, PoE output 185W max
Downlink ports	1~8 ports: 10/100/1000Base-T 30W PoE RJ45(IEEE802.3af/at)
Uplink ports	Ports 9~10 1000Base-X SFP
Console port	RJ45 to serial port (38400,8,N,1)
Reset key	Short press restart , >5s press recovery to default
Cable and distance	Use cat5e/6, 100m max.
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z
Switch fabric	20Gbps
Though put	14.88Mpps
Buffer	1M
MAC address table	8K
Indicator	Power: 1 *red ; Downlink 1~8: On RJ45 green LEDs indicate Link/Act, yellow LEDs indicate PoE Uplink9, 10: On RJ45 green LEDs indicate Link/Act
Protection	Surge: 6KV, standard: IEC61000-4-5 ESD: 6KV: contact 8KV: air, standard:IEC61000-4-2
SPD	AC lightning arrester, 385v AC@20KA , 2p, - 40 ~ 70 °C , lower incoming line, dxh06-fcs / 2r40
Working temperature	-20°C~65°C
Storage temperature	-40°C~85°C
Humidity	0~95%(No condensation)
Dimension(L×W×H)	280mm×200mm×260mm
Material	Metal
Colour	White
Net-weight	8KG

Software:

ITEM				Web	CLI
System configuration	System date time	SNTP	Enable/Disable	Yes	Yes
	User Management	\	Apply/Delete	Yes	Yes
	Safe Management	http	Enable/Disable	Yes	Yes
		SNMP	Enable/Disable	Yes	Yes
		telnet	Enable/Disable		Yes
		SSH	Enable/Disable		Yes
	Configuration file	\	Upload/Download	Yes	Yes
		\	Save/Delete	Yes	Yes
Firmware file	\	Upload	Yes	Yes	
System	\	Reboot/Reboot Factory	Yes	Yes	
Port configuration	Common	Admin Status	Up/Down	Yes	Yes
		Speed	Auto	Yes	Yes
			Full-1000 Mbps	Yes	Yes
			Full-100 Mbps	Yes	Yes
			Half-100 Mbps	Yes	Yes
			Full-10 Mbps	Yes	Yes
			Half-10 Mbps	Yes	Yes
	Flow control	\	On/Off	Yes	Yes
	Storm constrain	Action	Block		Yes
			Shutdown		Yes
		Broadcast	Min-rate Max-rate 1~1488100pps		Yes
		Enable	Log		Yes
			Trap		Yes
		Interval	6~180s		Yes
		Multicast	Min-rate Max-rate 1~1488100pps		Yes
Unicast	Min-rate Max-rate 1~1488100pps		Yes		

Strom control	Broadcast(1~1024000kbps)	On/Off	Yes	Yes
	Multicast(1~1024000kbps)	On/Off	Yes	Yes
	DLF(1~1024000kbps)	On/Off	Yes	Yes
Rate limit	TX	1~1024000kbps/Off	Yes	Yes
	RX	1~1024000kbps/Off	Yes	Yes
Protected Port	/	Yes/No	Yes	Yes
Learn Limit	MAC Address	0~8191	Yes	Yes
Port trunk	Trunk Group	Create/Delete	Yes	Yes
	Member Port	Add/Delete	Yes	Yes
	Trunk Method	Src-mac	Yes	Yes
		Dst-mac	Yes	Yes
		Src-dst-mac	Yes	Yes
		Src-ip	Yes	Yes
		Dst-ip	Yes	Yes
		Src-dst-ip	Yes	Yes
Port Mirror	Mirror Port	/	Yes	Yes
	Mirrored Port	/	Yes	Yes
	Mirror Direction	Receive	Yes	Yes
		Transmit	Yes	Yes
		Both	Yes	Yes
		Not_receive	Yes	Yes
		Not_transmit	Yes	Yes
Neither	Yes	Yes		
DHCP	DHCP client	Enable		Yes
		Release		Yes
		Renew		Yes
	DHCP Snooping	/		Yes
IP	IGMP Snooping	Mrouter VLAN(1~4094)		Yes
	MAC-bind	IP Address MAC Address		Yes
IP-subnet-vlan	IP Address Mask	VLAN 1~4094	Yes	Yes

LACP	Port Priority	1~65535		Yes
	Timeout	Long		Yes
		Short		Yes
LLDP	Admin Status	Disable		Yes
		TX		Yes
		RX		Yes
		TXRX		Yes
	Enable	/		Yes
	Check-change-interval	1~30		Yes
	Management Address	IP Address		Yes
	Tlv-enable	Dot1-tlv		Yes
		Dot3-tlv		Yes
Med-tlv			Yes	
Loopback detection	Enable	/		Yes
	Resume	/		Yes
	Resume Mode	Automation		Yes
		Manual		Yes
	Shutdown Mode	No Shutdown		Yes
		Shutdown		Yes
MAC VLAN	MAC Address	VLAN 1~4094		Yes
VLAN-mapping	VLAN(1~4094)	Map-vlan(1~4094)		Yes
Voice VLAN	VLAN ID(1~4094)	Enable/Disable		Yes
	Qos Map-queue(0~7)	Remark-dscp(0~63)		Yes
Mvr-interface	Enable/Disable	/		Yes
OAM	Enable	/		Yes
	Loopback	/		Yes
	Mode	Active		Yes
		Passive		Yes
QinQ	Customer	/		Yes
	Outer-vid(1~4094)	Inner-vid(VLAN ID)		Yes
	Tpid	/		Yes
	Uplink	/		Yes

	UdId	Aggressive	/		Yes	
		Port	/		Yes	
	Jumbo Frame		1523~16383bytes		Yes	
	DDM Information	/	/	Yes	Yes	
MAC	MAC Binding		Select-all/Apply/Delete	Yes	Yes	
	MAC Auto Binding		Select-all/Apply	Yes	Yes	
	MAC Filter		Select-all/Apply/Delete	Yes	Yes	
	MAC Auto Filter		Select-all/Apply	Yes	Yes	
	Bridge	Acquire		/		Yes
		Address		MAC(HHHH.HHHH.HHHH)		Yes
		Ageing-time		10~1000000s		Yes
Unregistered			Multicast Discard/Forward		Yes	
VLAN configuration	VLAN	2~4094	Apply/Delete	Yes	Yes	
	VLAN Port	Mode	Access	Yes	Yes	
			Trunk	Yes	Yes	
			Hybrid	Yes	Yes	
		Port Members	Default VLAN(p)	Yes	Yes	
			Tagged Member(t)	Yes	Yes	
			Untagged Member(u)	Yes	Yes	
UnMember		Yes	Yes			
SNMP configuration	SNMP community	Community Name	Apply/Delete	Yes	Yes	
		Read Only	Apply/Delete	Yes	Yes	
		Read Write	Apply/Delete	Yes	Yes	
	TRAP Target	SNMP Version	V1		Yes	Yes
			V2C		Yes	Yes
			V3		Yes	Yes

		Item	Apply/Delete	Yes	Yes
ACL configuration	Standard IP	Group Number	1~99 1300~1999 Select-all/Add/Delete	Yes	Yes
		Source IP	Select-all/Add/Delete	Yes	Yes
		Source Wildcard	Select-all/Add/Delete	Yes	Yes
		Math Data Packets	Deny/Permit	Yes	Yes
	Extended IP	Group Number	100~199 2000~2699 Select-all/Add/Delete	Yes	Yes
		Source IP	Add/Delete	Yes	Yes
		Source Wildcard	/	Yes	Yes
		Destination IP	/	Yes	Yes
		Destination Wildcard	/	Yes	Yes
		Protocol Type	IP/TCP/UDP	Yes	Yes
		Source Port	Ftp(TCP) Ftp-Data(TCP) Pop3(TCP) Sntp(TCP) Telnet(TCP) WWW(TCP) Rip(UDP) Snmp(UDP) Snmp-Trap(UDP) Tftp(UDP)	Yes	Yes
		Destination Port	Ftp(TCP) Ftp-Data(TCP) Pop3(TCP) Sntp(TCP) Telnet(TCP) WWW(TCP) Rip(UDP) Snmp(UDP) Snmp-Trap(UDP) Tftp(UDP)	Yes	Yes

		TCP Control Flag	Fin Sys Rst Psh Ack Urg	Yes	Yes
		Math Data Packets	Deny/Permit	Yes	Yes
	MAC IP	Group Number	700~799 Select-all/Add/Delete	Yes	Yes
		Source MAC	Add/Delete	Yes	Yes
		Source MAC wildcard	Select-all/Add/Delete	Yes	Yes
		Source IP	Select-all/Add/Delete	Yes	Yes
		Source Wildcard	Select-all/Add/Delete	Yes	Yes
		Destination IP	Select-all/Add/Delete	Yes	Yes
		Destination Wildcard	Select-all/Add/Delete	Yes	Yes
		VLAN ID	0~4094 Select-all/Add/Delete	Yes	Yes
		Math Data Packets	Deny/Permit	Yes	Yes
	MAC ARP	Group Number	1100~1199 Select-all/Add/Delete	Yes	Yes
		Sender MAC	Add/Delete	Yes	Yes
		Sender MAC wildcard	Select-all/Add/Delete	Yes	Yes
		Sender IP	Select-all/Add/Delete	Yes	Yes
		Sender IP wildcard	Select-all/Add/Delete	Yes	Yes
		Math Data Packets	Deny/Permit	Yes	Yes
	ACL Reference	Ports	Select-all/Add/Delete	Yes	Yes
		All ACL Group	Select-all/Add/Delete	Yes	Yes
	Time-range	Name	1<=S<=31		Yes
Cycle-time		Days(0~6 week days) From(0~23hour)		Yes	
Utter-time		From(2000~2100year)		Yes	

QoS configuration	QoS apply	Port	Select	Yes	Yes
		QoS Type	NO QoS	Yes	Yes
			COS-based	Yes	Yes
			DSCP-based	Yes	Yes
			DSCP COS-based	Yes	Yes
	User Priority	0~7	Yes	Yes	
	QoS schedule	Port	Select	Yes	Yes
		QoS schedule mode	WRR	Yes	Yes
			SP WFQ	Yes	Yes
		Queue	0~7	Yes	Yes
	Weight of queue	1~127	Yes	Yes	
	IP Address	VLAN ID(VID)	1~4094 Create/Delete	Yes	Yes
		IP Address	Set/Delete	Yes	Yes
		DHCP Client	Enable/Disable	Yes	Yes
	ARP	Static ARP	IP address add	Yes	Yes
			MAC address add	Yes	Yes
		ARP Item	A.B.C.D delete	Yes	Yes
			A.B.C.D/M delete	Yes	Yes
			All delete	Yes	Yes
			Dynamic delete	Yes	Yes
			Static delete	Yes	Yes
		Change Dynamic ARP into Static ARP	A.B.C.D/M	Yes	Yes
	All		Yes	Yes	
Aging time	1~65535min		Yes		
Host Static Route	Target Address/Subnet prefix	Apply/Delete	Yes	Yes	
	Next Hop	Apply/Delete	Yes	Yes	
AAA Configuration	Tacacs+	Tacacs+	Enable/Disable	Yes	Yes
		Server IP	A.B.C.D	Yes	Yes
		Authentication Type	pap	Yes	Yes

	Radius		chap	Yes	Yes
		Shared Secret	S<30	Yes	Yes
		Primary Server	A.B.C.D	Yes	Yes
		Option Server	A.B.C.D	Yes	Yes
		UDP Port	1~65535	Yes	Yes
		Accounting	Enable/Disable	Yes	Yes
		Shared Key	S<30	Yes	Yes
		Vendor	S<24	Yes	Yes
		NAS Port	1~65535	Yes	Yes
		NAS Port Type	1~65535	Yes	Yes
		NAS Service Type	1~65535	Yes	Yes
		Roaming	Enable/Disable	Yes	Yes
802.1x	802.1x	802.1x	Enable/Disable	Yes	Yes
		Reauthentication	Enable/Disable	Yes	Yes
		Reauthentication Period	1~2147483647s	Yes	Yes
		Quiet Period	1~2147483647s	Yes	Yes
		Tx-Period	1~2147483647s	Yes	Yes
		Server Timeout	1~2147483647s	Yes	Yes
		Supplicant Timeout	1~2147483647s	Yes	Yes
		Max Request	1~2147483647	Yes	Yes
		Reauth Max	Max Request	Yes	Yes
		Client Version	0.0~255.255	Yes	Yes
		Check Client	Enable/Disable	Yes	Yes
		Check Version	Open/Close		Yes
802.1x Port	802.1x Port	Port Number	Select	Yes	Yes
		Port Mode	N/A	Yes	Yes
			Force-Unauth	Yes	Yes
			Auto	Yes	Yes
			Force-Auth	Yes	Yes
		Support Host Number	1~256	Yes	Yes
		Guest VLAN	1~4094		Yes
Transmit Port	Enable/Diaable		Yes		

	802.1x User Auth-Info	port	Select	Yes	Yes
STP Configuration	MSTP	MSTP	Enable/Disable	Yes	Yes
		Priority	0~61440(increments of 4096)	Yes	Yes
		Portfast Bpdu-Filter	Enable/Disable	Yes	Yes
		Portfast Bpdu-Guard	Enable/Disable	Yes	Yes
		Forward-Time	4~30(2*(ForwardTime-1)>=MaxAge)	Yes	Yes
		Hello-Time	1~10(2*(HelloTime+1)<=MaxAge)	Yes	Yes
		Errdisable-Timeout	Enable/Disable	Yes	Yes
		Errdisable-Timeout Interval	10~1000000s(10,10000can't update)	Yes	Yes
		Max-Age	6~40s	Yes	Yes
		Max-Hops	1~40	Yes	Yes
		Cisco-Interopeability	Enable/Disable	Yes	Yes
	STP Port	Port	Select	Yes	Yes
		Portfast	Enable/Disable	Yes	Yes
		Portfast bpdu-filter	Enable/Disable/default	Yes	Yes
		Portfast bpdu-guard	Enable/Disable/default	Yes	Yes
		Root Guard	Enable/Disable	Yes	Yes
		Link-Type	Shared	Yes	Yes
			Point-to-Point	Yes	Yes
		Priority	0~240(increments of 16)	Yes	Yes
		Path-Cost	1~200000000	Yes	Yes
Force-Version	STP(0)	Yes	Yes		
	RSTP(2)	Yes	Yes		
	MSTP(3)	Yes	Yes		
	Not-supported(1)	Yes	Yes		

		Instance	1~15		Yes
IGMP Snooping Configuration	IGMP Snooping	IGMP Snooping	Enable/Disable	Yes	Yes
GMRP Configuration	GMRP Global	Global GMRP	Enable/Disable	Yes	Yes
	GMRP Ports	Port	Select	Yes	Yes
		GMRP Status	Enable/Disable	Yes	Yes
	GMRP Registration	Fixed	IF_Name		Yes
		Forbidden			Yes
EAPS Configuration	EAPS	EAPS Ring ID	1~16	Yes	Yes
		Mode	None	Yes	Yes
			Master	Yes	Yes
			Transit	Yes	Yes
		Primary Port	/	Yes	Yes
		Secondary Port	/	Yes	Yes
		Control VLAN	2~4094	Yes	Yes
		Protected VLANs	1~4094	Yes	Yes
		Hello Time Interval	1~65535<Fail Time	Yes	Yes
		Fail Time	2~65535>Hello Time	Yes	Yes
		Data Span	Enable/Disable	Yes	Yes
		Extreme Interoperability	Enable/Disable	Yes	Yes
		Enable Status	Enable/Disable	Yes	Yes
RMON Configuration	Statistics	Port	Select	Yes	Yes
		Index	1~100	Yes	Yes
		Owner	/	Yes	Yes
	History	Port	Select	Yes	Yes
		Index	1~100	Yes	Yes
		Interval	1~3600	Yes	Yes
		Request Buckets	1~100	Yes	Yes
		Owner	/	Yes	Yes
		History Data	First	Yes	Yes
			Prev	Yes	Yes

			Next	Yes	Yes
			Last	Yes	Yes
	Alarm	Index	1~60	Yes	Yes
		Interval	1~3600	Yes	Yes
		Variable	Monitor Object's Oid	Yes	Yes
		Sample Type	Absolute	Yes	Yes
			Delta	Yes	Yes
		Rising Threshold	1~2147483647	Yes	Yes
		Failing Threshold	1~2147483647	Yes	Yes
		Rising Event Index	1~60	Yes	Yes
		Failing Event Index	1~60	Yes	Yes
		Owner	/	Yes	Yes
	Event	Index	1~60	Yes	Yes
		Description	/	Yes	Yes
		Type	None	Yes	Yes
			Log	Yes	Yes
			Snmp-Trap	Yes	Yes
			Log-and-Trap	Yes	Yes
		Community	/	Yes	Yes
	Owner	/	Yes	Yes	
Cluster Management	NDP	Port	Select	Yes	Yes
		Port Enable	Enable/Disable	Yes	Yes
		Global Enable	Enable/Disable	Yes	Yes
		Hello-Time	1~4096	Yes	Yes
		Aging-Time	1~4096	Yes	Yes
	NTDP	Port	Select	Yes	Yes
		Port Enable	Enable/Disable	Yes	Yes
		Global Enable	Enable/Disable	Yes	Yes
		Hops	1~6	Yes	Yes
		Interval-Time	0~65535min	Yes	Yes
		Hop-Delay	1~1000milsec	Yes	Yes
		Port-Delay	1~100milsec	Yes	Yes

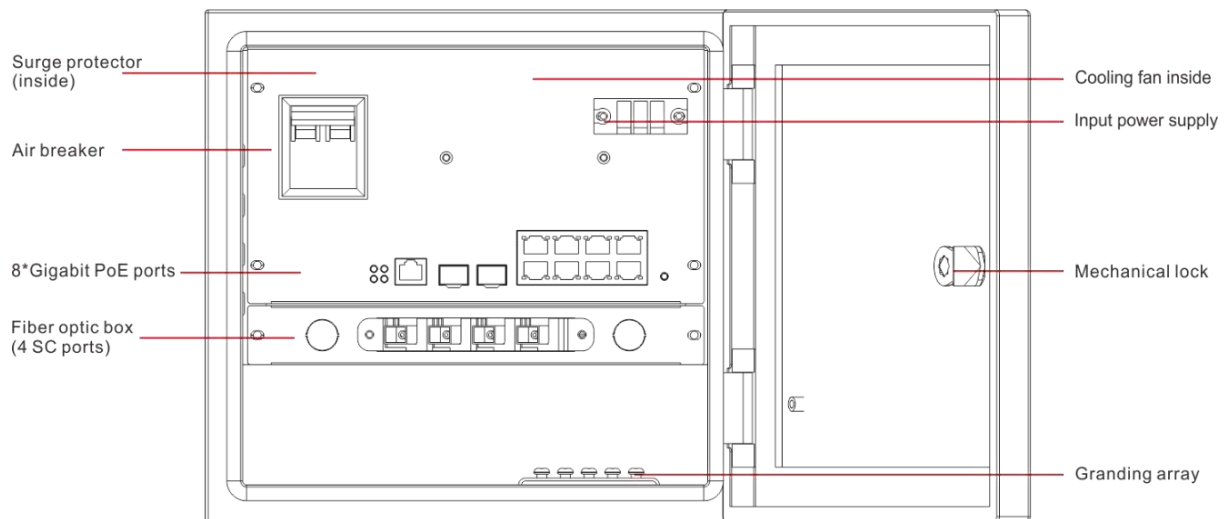
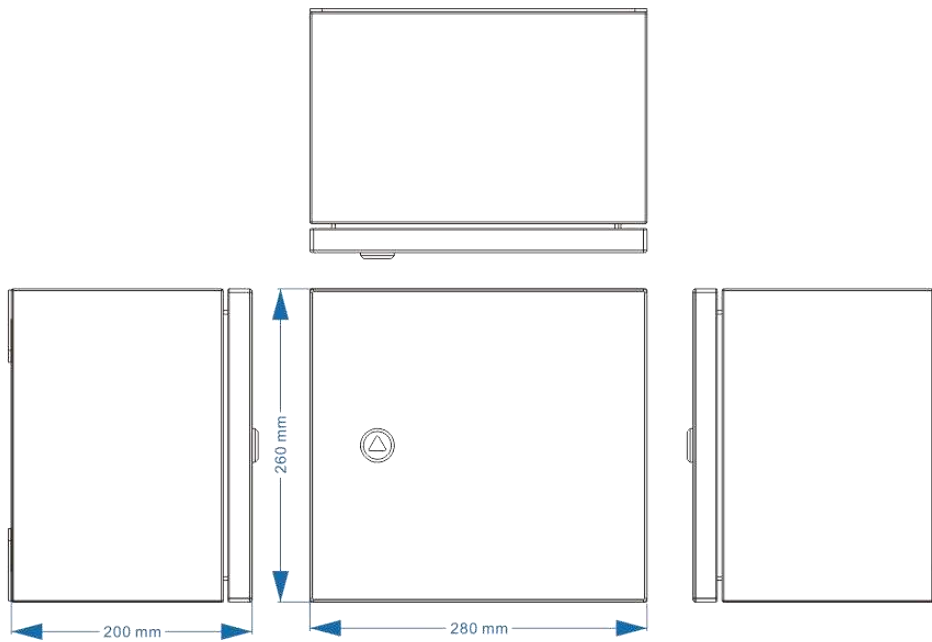
	Cluster	Cluster Enable	Enable/Disable	Yes	Yes
		Management-VLAN	1~4094	Yes	Yes
		IP-Pool	A.B.C.D/M	Yes	Yes
		Handshake Time	1~255sec	Yes	Yes
		Handshake Hold-time	1~255sec	Yes	Yes
		Cluster Name	/	Yes	Yes
		Type	Autobuild	Yes	Yes
Log Information	Log	Log Priority	Critical	Yes	Yes
			Warning	Yes	Yes
			Informational	Yes	Yes
			Debugging	Yes	Yes
			All	Yes	Yes
	Syslog	Open/Close	/		Yes
POE Power Control	POE	Type	802.3af		Yes
			802.3at	Yes	Yes
			802.3bt	Yes	Yes
		Admin Status	Enable/Disable	Yes	Yes
		Total Power	20~2500/0		Yes
		POE Policy	POE Port	Yes	Yes
	Week Days		Yes	Yes	
	Clock		Yes	Yes	
	PD Query	POE Port	Select	Yes	Yes
		POE Watchdog	Enable/Disable	Yes	Yes
		PD IP Address	A.B.C.D	Yes	Yes
		PD Query Interval	5~300sec	Yes	Yes
PD Timeout Number		2~10	Yes	Yes	
PD Boot Time		30~600sec	Yes	Yes	
DHCP	DHCP snooping	IP Address	Upload		Yes
			Auto-upload		Yes
			Download		Yes
			Reset-download		Yes

		MAC Address	Delete		Yes
ERPS Configuration	ERPS	Domain ID	1~8		Yes
		Node-role	interconnection		Yes
	none-interconnection			Yes	
	ERPS Ring ID(1~32)	Enable/Disable	/		Yes
		Force Switch	Add/Clear		Yes
		Manual Switch			Yes
		Guard Time	10~2000		Yes
		Node Mode	Ring-node		Yes
			Rpl-neighbor-node		Yes
			Rpl-owner-node		Yes
		Hold-off-time	0~10000		Yes
		Raps-send-time	1~10		Yes
		Raps-VLAN	2~4094		Yes
		Revertive-behaviour	Non-revertive		Yes
			Revertive		Yes
		Ring Mode	Major-ring		Yes
			Sub-ring		Yes
		RI-port	Select		Yes
		Rpl-port	Select		Yes
	Traffic VLAN	1~4094		Yes	
Wtb Time	1~10		Yes		
Wtr Time	1~12		Yes		
LACP Configuration	LACP	Max-active-link-number	1~8		Yes
		System-priority	1~65535		Yes
LINE	Line	Vty	/		Yes
LLDP	LLDP	Global	Enable		Yes
		Hold-multiplier	2~10		Yes
		Timer	Reinit-delay		Yes
			Tx-delay		Yes
Tx-interval			Yes		

Loop-detection	Loopback-detection	Detection-Time	(1~65535)*2<Resume-Time	Yes
		Protocol-safety	/	Yes
		Respond-packets	2~100	Yes
		Resume-Time	10~65535	Yes
MVR	MVR	Enable/Disable	/	Yes
		Group	IP Address	Yes
		VLAN	1~4094	Yes
OAM	OAM	Errored-frame	Period	Yes
			Threshold	Yes
		Errored-frame-period	Period	Yes
			Threshold	Yes
Errored-frame-seconds	Period	Yes		
	Threshold	Yes		
Redundant-Port	Redundant-port(1~8)	Force-switch	/	Yes
		Primary-port	Secondary-port	Yes
UDLD	UDLD	Enable	/	Yes
		Time	7~90	Yes
Protocol VLAN	Protocol VLAN	Ether-type	0~65535	Yes
			ARP	Yes
			Atalkarp	Yes
			Atalkddp	Yes
			Atmmulti	Yes
			Atmtransport	Yes
			Dec	Yes
			Deccustom	Yes
			Decdiagnostics	Yes
			Decdnadumload	Yes
			Decdnaremoteconsole	Yes
Decdnarouting	Yes			

			Declat	Yes
			Decsyscomm	Yes
			G8bpqx25	Yes
			IEEEaddrtrans	Yes
			IEEEpup	Yes
			IP	Yes
			IPX	Yes
			PPPdiscovery	Yes
			PPPsession	Yes
			Rarp	Yes
			X25	Yes
			Xeroxaddrtrans	Yes
			Xeroxpup	Yes
CFM	CFM	CC	interval(3~7) Service-instance(1~3 2767)	Yes
		Enable	/	Yes
		Linktrace	Auto-detection	Yes
		MA	MD	Yes
		MD	Level(0~7)	Yes
		Mip-rule	Default Service-instance(1~3 2767)	Yes
			Explicit Service-instance(1~3 2767)	Yes
		Service-instance(1~32767)	MA	Yes

❖ Structure





Outdoor PoE switch series QB3082SPGM-200(30W)

❖ Ordering information

version	describe
QB3082SPGM-200	Outdoor PoE switch AC 100~240V, 50/60Hz, 10A IN; With 8 *10/100/1000M PoE ports and 2*1000M SFP ports; Support 8 ports PoE power each up to 30W; It has 200W built-in power supply, L2 network management.
Optional Accessories	Cooling fan illumination when door open

ShenZhen N-net High-Tech Co., Ltd.

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