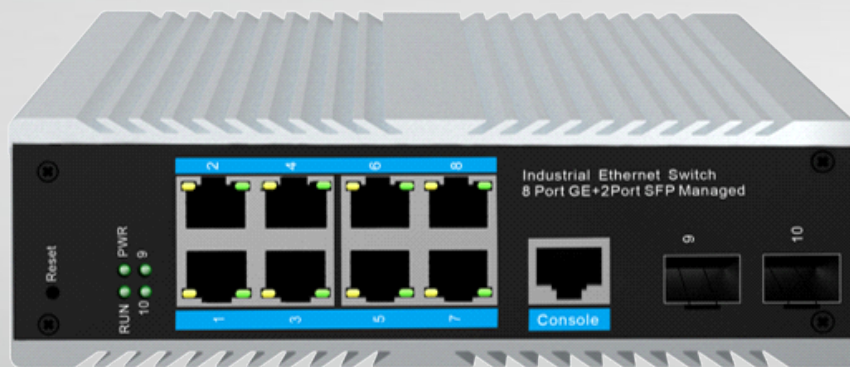**Switch PoE**

TBK-SWPOE8GSFP2

PRODUCT OVERVIEW

The TBK-SWPOE8GSFP2 is a full Gigabit L2 managed industrial PoE Ethernet fiber switch. It has 8*10/100/1000Base-T PoE ports Port 1-8 can support (IEEE802.3af/at, with a maximum power of 30W per port and a total power of 120W) and 2*100/1000Base-X SFP fiber ports. It can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP, sensor through the network cable.

Its network management function,support

IPV4 static route forwarding, complete security protection mechanism, ACL/QoS policy and rich VLAN functions, easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP (<50ms)

Support ERPS ring network function (convergence time<20ms) to improve link backup and network reliability to ensure uninterrupted communication of important applications.

According to actual application needs,

TBK-SWPOE8GSFP2   SPECIFICATIONS

Routing address management,port management, port flow control, VLAN division, IGMP, security policy and other application service configurations are performed through Web, CLI, SNMP, Telnet and other network management methods. The shell is made of aluminum alloy, which has excellent industrial field environmental adaptability (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.), protection level is IP40, support dual redundant power supply, low power consumption and no fan, 3-year warranty. It is suitable for industrial scenarios such as intelligent transportation, rail transit, electric power industry, mining, petroleum, shipping, metallurgy and green energy construction to establish a cost-effective, stable and reliable communication network.

MAIN FEATURES

Gigabit Access, SFP Fiber Port Uplink, Integrated Bypass Function

·Support non-blocking wire-speed forwarding.
·Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure
·Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
·Support physical single-mode single fiber optical path(Bypass) function, pure hardware switching, short switching time, does not affect the data transmission rate and improves the stability of the network system.

Network Management and Fast Ring Function

·STP/RSTP/MSTP/ERPS.
·Static and dynamic aggregation.
·IEEE802. 1Q VLAN, flexible VLAN division, Access,Trunk and Hybrid.
·QoS, Priority mode based on 802. 1P, Port & DSCP, queue scheduling algorithm including EQU, SP,
·WRR & SP+WRR.
·IGMP Snooping V1/V2/V3 meets multi-terminal high-definition video surveillance and video conference access requirements.
·ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

Security

·802. 1X authentication.
·Port isolation, storm control.
·IP-MAC-VLAN-Port binding.

Stable and Reliable

·CE, FCC, RoHS.
·Low power consumption, No fan, aluminum shell.
·The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A. One-stop Remote Control and Management
·HTTPS, SSLV3, and SSHV1/V2.
·RMON, system log, LLDP, and port traffic statistics.
·CPU monitoring, memory monitoring, Ping test, and cable diagnose.
·Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

TBK-SWPOE8GSFP2 SPECIFICATIONS

Hardware Specifications

Ports	8* 10/ 100/ 1000Base-T PoE Ports
	2* 100/ 1000Base-X Uplink SFP Slot Ports
	1* Console
Ethernet Port	Port 1-8 support 10/ 100/ 1000Base-T auto-sensing, full/half duplex
	MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters)
	100BASE-TX: Cat5 or later UTP(≤100 meters)
	1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (Only supports single-mode single fiber optical module. LC)
Wavelength/Distance	Multi mode: 850nm 0~550M,1310nm 0~2KM single mode: 1310nm 0~40KM 1550nm 0~120KM
Network Management Type	L2
Ring network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of<20ms
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-X, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	20Gbps
Buffer Memory	14.88Mpps
MAC	8K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (Only supports single-mode single fiber optical module. LC)
Wavelength Distance	multimode: 850nm 0~550M,1310nm 0~2KM single mode: 1310nm 0~40KM 1550nm 0~120KM

LED Indicator	Power Indicator Light		P: 1 Green
	Fiber Indicator Light		F: 1 Green (Link,SDFED)
	On the PoE seat		Yellow:Indicate PoE
			Green: Indicates network working status

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Reset Switch	Yes, Press and hold the reset switch for 5s and release it to restore the factory settings
Power Supply	DC: 52V/2.3A 120W
PoE power supply method	Supports 1,2+, 3,6-power supply
PoE output power	IEEE802.3af/at with a maximum power of 30W per port and a total power of 120W
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~ 1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m , 1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4- 10(damped oscillation):30A/m 1MHz IEC61000-4- 12/ 18(shockwave):CM 2.5kV,DM 1kV IEC61000-4- 16(common-mode transmission):30V; 300V, 1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Operation TEMP Humidity	-40~+75ºC, 5%~90% RH (Non Condensing)
Storage TEMP Humidity	-40~+85ºC, 5%~95% RH (Non Condensing)
Dimension (L*W*H)	172mm* 145mm*55mm
Installation	Desktop, DIN rail

TBK-SWPOE8GSFP2   SPECIFICATIONS

Software Specifications	
Routing	L2+ Management
	Static/Default Routing (128 entries), ARP (1024 entries)
	Layer 3 routing and forwarding. Enabling communication between different network segments and VLAN
Security	MAC-IP-VLAN ID-Port
	802.1X, RADIUS Configuration
	ARP/IP/DoS Protection
	Port Isolation
	SSL/SSH
ACL	L2, L3e, L4
	Time-based ACL 256 ACLs
VLAN	Support 802.1Q VLAN, MAC VLAN, Private VLAN, Protocol VLAN
	Support VLAN VPN
	Support Voice VLAN
	Support GARP/GVRP
MAC Address	8K MAC
	MAC Learning Limits Per-port
	Dynamic/Static/Filtered MAC Tables
Port Management	Port Aggregation, Port Mirroring, Limiting
	Storm Limited
Spanning Tree	STP (802.1d), RSTP (802.1w), MSTP (802.1s)
	Spanning Tree Security
Multicast	IGMP V1/V2/V3
	Multicast VLAN, Multicast Address Table, Multicast filtering
QoS	8 Output Queues Per Ports
	Priority Based on Port/802.1P/DSCP
	EQU/SP/WRR/SP+WRR Scheduling
	Voice VLAN

DHCP	DHCP Client, DHCP Server
	DHCP Relay
	DHCP Snooping
Aggregation	Static Aggregation
	Dynamic Aggregation
System Management	Web (HTTP/SSL), CLI (Telnet/SSH/Console)
	SNMP V1/V2/V3
Maintenance	LLDP
	Configuration Backup/Restore, System Time Setting
	Loopback/Cable Detection and Ping/Tracert Detection
	Log Management
Ring Protocols	ERPS Protocol
	RPL Configuration

TBK-SWPOE8GSFP2 SPECIFICATIONS

DIMENSIONS (Unit:mm)

55mm

172mm

145mm