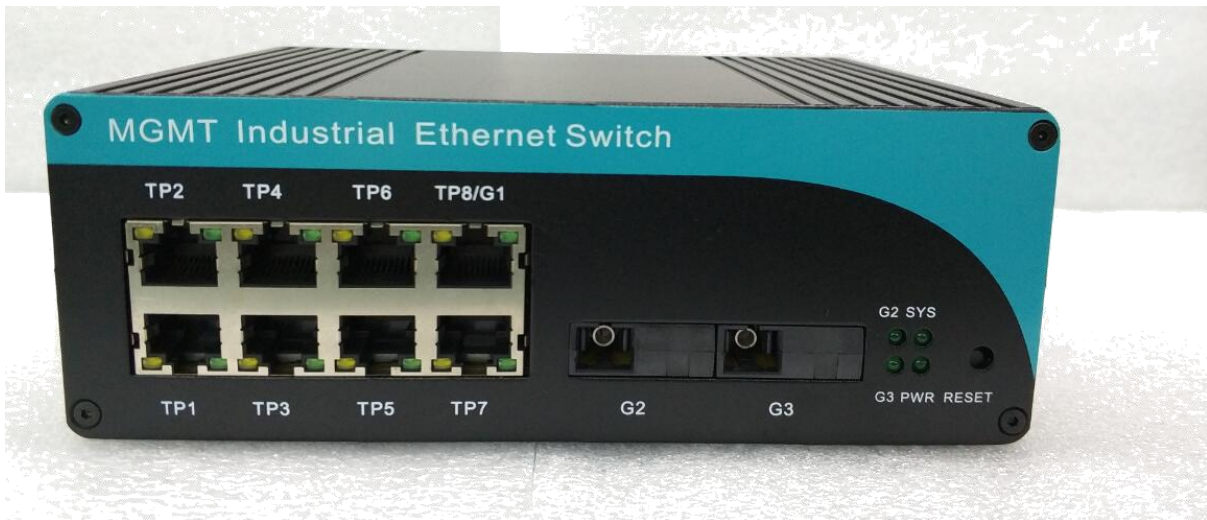


Industrial Gigabit Ring Network Ethernet Fiber Switch with Two Fiber



Interfaces and Eight RJ45 Interfaces

KNPS-8-FB2

1, Overview

Industrial Network Management Ethernet Switch supporting two Gigabit SFP fiber ports, one 10/100/1000M adaptive RJ45 Port and seven 10/100M adaptive RJ45 ports, two power backup inputs and one relay alarm output. The product adopts ring network technology (when network failure self-healing, <20ms), the users can easily set redundant ring network to increase network reliability, and also support SNMPv3, IEEE 802.1X, HTTPS and SSH to enhance network security. In line with industrial grade 4 design requirements, the operating temperature of -40 to +75 °C can meet the requirements of various industrial sites, and has been widely used in electric power, water conservancy, rail transit and other fields.

- Rail-type network management industrial Ethernet switch
- Provide powerful web management functions
- 2 Gigabit ports effectively create Gigabit self-healing redundant ring network
- Support ring protocol (self-healing time <20ms) and RSTP/STP Ethernet redundancy
- Supports SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- Support WEB, CLI, Telnet / serial console, Windows utility, SNMP and various management methods

2, Features

- Industrial Ethernet Series, designed for harsh and demanding industrial environments
- Supports the command interface (CLI) for quick configuration of major management functions.
- Support IEEE 1588 PTP V2 (Precision Time Protocol) for accurate network time synchronization
- DHCP Option 82 is used to assign IP addresses with different policies.



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- Support ring protocol “Ring” (self-healing time <20ms), STP, RSTP and MSTP Ethernet redundancy
- IGMP Snooping and GMRP filter multicast traffic
- Supports port-based VLAN, IEEE 802.1Q VLAN and GVRP protocol, simple network planning
- Support port mirroring
- Supports Ethernet/IP and Modbus/TCP protocols for device management and control
- Support multicast, broadcast storm control
- Bandwidth management: Supports port aggregation, port rate limiting, and broadcast storm suppression.
- Support QoS and ToS/DiffServ for flow control and management
- Support link aggregation and optimize bandwidth utilization
- Supports SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security.
- SNMPv1/v2c/v3 network management with different security levels
- Support TACACS+
- Use RMON to effectively improve network monitoring and forecasting capabilities
- Support bandwidth management to ensure network stability
- Support MAC address-based port locking to prevent illegal intrusion
- Automatic alarm through E-mail and relay output
- Reset: Supports restart and restore default configuration parameters.

Standard:

IEEE 802.3 is suitable for 10BaseT

IEEE 802.3u is suitable for 100BaseT(X) and 100BaseFX

IEEE 802.3ab for 1000BaseT(X)

IEEE 802.3z is suitable for 1000BaseX

IEEE 802.3x is suitable for traffic control

IEEE 802.1d-2004 is applicable to the Spanning Tree Protocol

IEEE 802.1w is suitable for Rapid STP

IEEE 802.1q is suitable for VLAN Tagging

IEEE 802.1p applies to Class of Service

IEEE 802.1x is applicable to Authentication

IEEE 802.3 AD is suitable for Port Trunk with LACP

Protocol:

IGMPv1 / v2, v3 and GMRP GVRP, SNMPv1 / v2c/v3,

DHCP Client, TFTP, SNMP, SMTP,

RMON, HTTP, HTTPS, Telnet, Syslog, SSH,

LLDP, IEEE 1588 PTP V2, IPv6.

MIB:

Mib-ii, Ethernet Like MIB, p-bridge MIB,

Q-bridge MIB, BRIDGE MIB, RSTP MIB, RMON MIB

Group 1, 2, 3, 9

Flow control: IEEE 802.3x flow control, back pressure flow control



3, Switch Properties

Priority queue: 4

Maximum number of available VLANs: 64

VLAN ID range: VID 1~4094

IGMP snooping multicast group: 256

MAC address table size: 8K

Packet buffer size: 1 Mbit

4, interface

Fiber port: 1000BaseX SC (can be used as FC ST SFP-LC interface)

RJ45 port: 10/100BaseTX or 10/100/1000BaseTX adaptive

Console port: Based on the serial port global network management RS-232 (RJ45 connector)

Button: Reset restart button Reset Alarm output: 1 relay output, current load capacity 2 A

Power input: 2 inputs, electronic isolation, common ground

Input voltage: 12VDC (5 ~ 55VDC), dual redundant input

Terminal block: 6 core 5mm spacing terminals

No-load power: 3.0W@12VDC

Full load power: <0.76A@12VDC, <10W

Support overload protection

Support reverse connection protection

Support redundancy protection

5, LED

The LED indicators of industrial Gigabit ring fiber switches show the working status of the switch.

According to the LED, it can be judged whether the switch is working properly and may have any problems, thus helping to find out the fault.

Industrial Gigabit ring network switch indicators are all defined as follows:

PWR	Power Indicator	Lights up to indicate that the power supply is normal.
SYS	System operation indicator	On: The system is operating normally.
G2 G3	G2, G3 optical port indicator	Lights on: the optical port is connected normally.
TP1-TP8	Network port indicator	The light is on: the network port is connected normally. Light flash: network communication has data communication

6, Size and working temperature

Shell: IP40 protection grade, high-strength aluminum profile or iron shell installation: rail, wall mount

Bench

weight: 800g

Dimensions (W × H × D): 170 mm × 127 mm × 60 mm



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Operating temperature:

Standard model: -25 ~ +60 °C

Wide temperature model: -40 ~ +85 °C

Storage temperature: -40~85°C

Relative humidity: 5%~95% (no condensation)

7, Reset and restore factory settings

Press the RESET button, the device will restart, and the factory reset can be done at the WEB interface.

You can also complete the relevant commands through the CON port.

8, Ring network and more related settings

1.Login System Default IP: 192.168.0.253 Username : superuser Password: 123

2. ring network configuration: In the system properties (the device has been set to fast-breaking RSTP, the user can set up the ring network directly and can also make other corresponding changes according to the needs)

3 IP configuration To facilitate management, you can modify the IP address, and each device must be in the same IP address segment.

For more detailed settings, please visit <http://pan.baidu.com/s/1pLdIPwf> to download the user manual and CON command manual.