



IES6000-PN-8T2GT-2P(12-48VDC)

Wall Mounting

10-Port 100M/Gigabit Layer 2 Managed PROFINET Industrial Ethernet Switch

- Support 2 Gigabit ports and 8 100M copper ports
- Support PROFINET RT real-time communication and meet the requirements of consistency category CC-B
- Support PROFINET MRP network redundancy, improve network reliability, reconfiguration time $\leq 200\text{ms}$
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing, automatic recovery time of network failure $< 20\text{ms}$
- Support dual power supply, input voltage: 12~48VDC
- Support $-40\sim 75^{\circ}\text{C}$ wide operating temperature range & IP67 Protection



Introduction

IES6000-PN-8T2GT-2P48 is 10-port 100M/Gigabit layer 2 managed PROFINET industrial Ethernet switch, which supports PROFINET RT real-time communication and conforms to the consistency category CC-B. This product provides 8 100M copper ports, 2 Gigabit Port, and it adopts Wall mounting which can meet the requirements of different scenes.

The network management system supports various network protocols and industry standards, such as PROFINET, STP/RSTP/MSTP, ERPS, MRP, 802.1Q VLAN, QoS function, IGMP static multicast, SNMP, LLDP, RMON, DHCP, NTP, etc. It has perfect management functions, support port configuration, access control, network diagnosis, rapid configuration, online upgrade, etc.; It can support CLI, WEB, Telnet, SNMP and other access methods; Provide GSD equipment description file, and realize simple and consistent configuration and diagnosis through STEP 7 or TIA Portal configuration tool. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. The design of DIP switch could implement device factory setting recovery. When power supply, port or other configurable event has alarm, ALM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart city, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

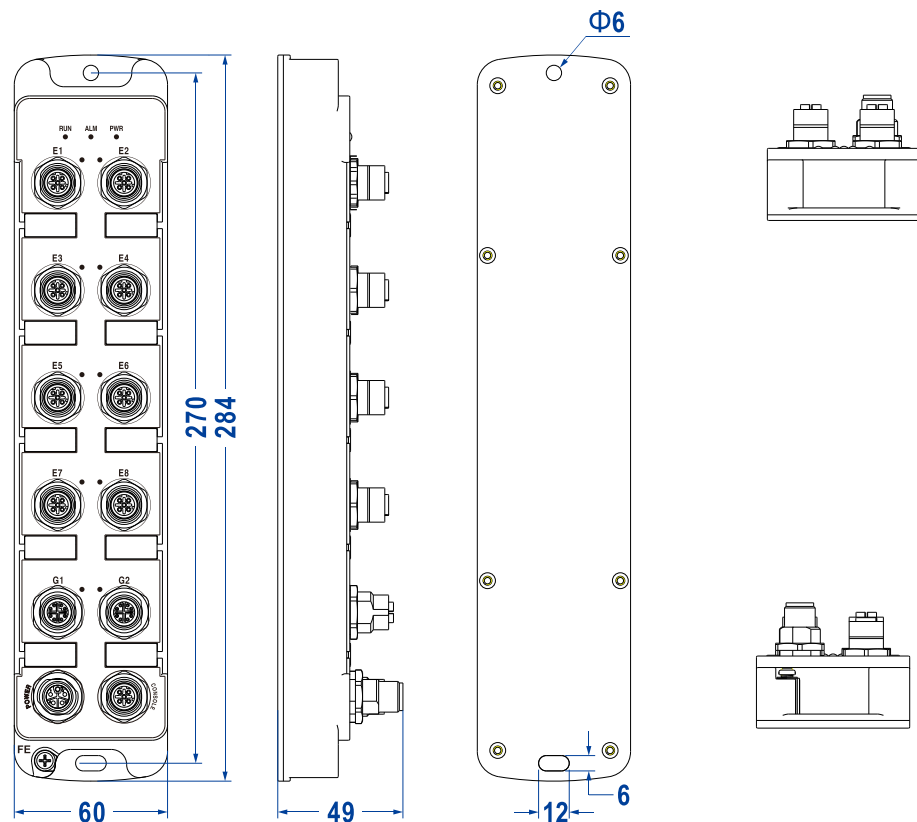
Features and Benefits

- ④ PROFINET conforms to the consistency class CC-B, which can respond to real-time communication, fast error detection and network self-healing quickly
- ④ SNMPv1/v2c/v3 is used for network management of various levels
- ④ Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging
- ④ DHCP server can be used for distributing IP address with different strategies
- ④ DHCP server can provide IP address allocation service in LAN
- ④ NTP server and NTP client can provide millisecond-level time synchronization
- ④ QoS supports real-time traffic classification and priority setting
- ④ LLDP can achieve automatic topology discovery, which is convenient for visual management
- ④ File management is convenient for the device rapid configuration and online upgrading
- ④ The log information records the boot information, operation information, connection information and alarm information, which can be uploaded to the remote Syslog server
- ④ Port ingress rate limit, according to bandwidth, protocol, storm or custom data protocol type, divide CoS priority and reasonably control data bandwidth
- ④ Port statistics can be used for port real-time traffic statistics, display real-time network utilization in a

- graphical way, and detect network performance
- User password can conduct user hierarchical management to improve the device management security
- Support port, temperature, voltage, MRP, leakage current, neighbors, network load, packet loss, error and other alarm events, SNMP Trap, email and other alarm methods, which is convenient for timely detection of faults during remote management
- Access control can enhance the flexibility and security of the network
- SSHD configuration can realize encrypted transmission data, prevent DNS and IP spoofing
- VLAN is used for simplifying network planning
- Port aggregation and LACP can increase network bandwidth and enhance the reliability of network connections to achieve optimal bandwidth utilization
- IGMP Snooping and static multicast can be used for filtering multicast traffic to save the network bandwidth
- Ring, MRP, STP/RSTP/MSTP can achieve network redundancy, preventing network storm
- Network diagnosis and troubleshooting through Ping, Traceroute, and cable tests
- Leakage current monitoring and spectrum diagrams in various modes are provided to facilitate the investigation of the influence of interference current on network communication

Dimension

Unit: mm



Specification

<p>Standard & Protocol</p>	<p>IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3z for 1000Base-X IEC 61158 and IEC 61784 for PROFINET IEEE 802.3x for Flow Control IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEC 62439-2 for MRP IEEE 802.1Q for VLAN IEEE 802.1p for CoS IEEE 802.3AD for LACP IEEE 802.1AB for LLDP</p>
<p>Industrial Ethernet</p>	<p>PROFINET V2.4</p>
<p>Management</p>	<p>SNMP v1/v2c/v3 Centralized Management of Equipment、DHCP Server、DHCP Client、Port Mirroring (TX、RX、TX&RX)、QoS、LLDP、File Management、Port Statistics、Log Management、Syslog Server</p>
<p>Switch Function</p>	<p>User privilege classification、Access control、port alarm、temperature alarm、power alarm、MRP alarm、Leakage current alarm、network load alarm、error neighbor alarm、error frame alarm、dropped frame alarm、relay alarm、mail alarm、SSHD Configuration、Telnet Configuration、HTTP Configuration、HTTPS Configuration</p>
<p>Switch Function</p>	<p>802.1Q VLAN, Static Port Aggregation/Dynamic Aggregation, Bandwidth Management, Flow Control, port Rate Limit</p>
<p>Redundancy Technology</p>	<p>Ring、MRP(Master/Client)、STP/RSTP/MSTP</p>
<p>Troubleshooting</p>	<p>Leakage Current、Ping、Traceroute、Cable Diagnostics</p>
<p>Time Management</p>	<p>NTP server and client</p>
<p>Interface</p>	<p>100M M12: 10/100Base-T(X), M12 (Female), 4-Pin D-Code, Auto flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Gigabit M12: 10/100/1000Base-T(X), M12(Female), 8-Pin X-Code, Auto flow Control, Full/half Duplex Mode, MDI/MDI-X Autotuning Console: CLI command line management (RS-232), M12 (Female), 4-Pin D-Code</p>



Indicator	RUN Indicator、ALM Indicator、Power Indicator、Interface Indicator
Switch Property	Transmission mode: store and forward Forwarding Rate: 4.1664Mpps MAC Address: 16K Buffer: 2Mbit Backplane bandwidth: 20G Switch time delay: <10μs
Power Supply	12~48VDC Redundancy Power Supply, M12(Male), 5-Pin L-Code, Support 4A over-current protection
Power consumption	Non-Load: 4.7W@48VDC Full Load: 6.8W@48VDC
Working Environment	Operating temperature: -40~75°C Storage temperature: -40~85°C Relative humidity: 5%~95% (Non-condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 70mm×160mm×130mm Weight: ≤ 1.1kg
Industrial Standard	IEC 61000-4-2 (ESD, electronic static discharge), Level 3 <ul style="list-style-type: none"> ● Air discharge: ± 8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT, electrical fast transient), Level 3 <ul style="list-style-type: none"> ● Power supply: ±2kV ● Ethernet port: ±1kV IEC 61000-4-5 (Surge), Level 3 <ul style="list-style-type: none"> ● Power supply: common mode ±2kV, differential mode ±1KV ● Ethernet port: ±2kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
MTBF	382,614 hours
Authentication	CE、FCC、PROFINET CC-B
Warranty	5 Years

Order Information

Model	100 M12	Gigabit M12	Power supply
IES6000-PN-8T2GT-2P(12-48VDC)	8	2	12~48VDC Dual Power



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