3onedata
Reliable Connections



IES6300PRO Series

DIN-Rail Mounting

12/20-Port Gigabit Layer 2 Managed Industrial Ethernet Switch

- Support 8 or 16 Gigabit copper ports (optional PoE), 2 Gigabit SFP slots, 2 2.5G SFP slots
- Adopt Ring patented technology, support single ring, coupling ring, chain, Dual-homing ring network function, automatic recovery time of network failure < 20ms
- Support multiple network protocols and industry standards, such as PTP, STP/RSTP/MSTP, ERPS, PoE, DHCP, VLAN, QoS, IGMP Snooping, LLDP, ACL and SNMP.
- Support 3 optional power supplies: 24/48VDC, 48VDC PoE, 110/220VAC
- Support -40~75℃ wide operating temperature range

CE FC RoHS <20ms RECOVERY PoE Industrial Grade RPS IP40

CONNECTING FOR A BETTER FUTURE

3onedata Co.,Ltd.

Introduction

IES6300PRO series is 12/20-port Gigabit layer 2 managed industrial Ethernet switch. PoE power supply conforms to IEEE802.3af/at protocol standard. This series provide 6 products and support a variety of interfaces including Gigabit copper ports, Gigabit PoE copper ports, 100M/1G SFP slots, 100M/1G/2.5G SFP slots, They adopt DIN-Rail mounting to meet the requirements of different application scenes.

The network management system supports a variety of network protocols and industry standards, such as PTP, Ring, STP/RSTP/MSTP, ERPS, DHCP Server/Snooping/Relay, VLAN, QoS, IGMP Snooping, LLDP, Port Trunking and Port Mirroring. It possesses complete management functions and supports Port Configuration, NAS, ACL, Network Diagnosis, Online Upgrade, etc. CLI, WEB, TELNET, SSH, SNMP and other access methods can be supported. Network management system could bring you great user experience through its friendly interface design and easy and convenient operation.

The DC power supply has 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 DC power supply or port has link failure, ALM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. The hardware adopts fanless, low power consumption and wide temperature design, which has passed rigorous industrial standard tests, and suits for the industrial scene environment with harsh requirements for EMC. It can be widely used in AP coverage, railway transportation, smart city, safe city, new energy, smart grid, intelligent manufacturing and other industrial fields.

Features and Benefits

- Precision Time Protocol (PTP), provide sub-microsecond synchronization accuracy to meet requirements for high-precision time synchronization
- SNMPv1/v2c/v3 is used for network management of various levels
- RMON can be used for efficient and flexible network monitoring
- QoS supports real-time traffic classification and priority setting
- LLDP can achieve automatic topology discovery, which is convenient for visual management
- DHCP server and DHCP client could be used for allocating IP address of different strategies
- DHCP Snooping can ensure DHCP client gets IP address from legal DHCP server
- DHCP relay function can realize IP address, gateway, DNS configuration cross network segment
- File management is convenient for the device rapid configuration and online upgrading
- User privilege classification configuration can set user privilege level
- SSH configuration and HTTPS configuration can improve device's management

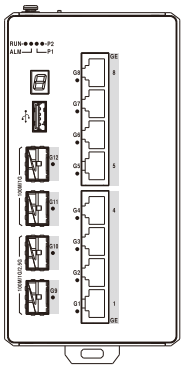
security and guarantee data access security

- Support NAS network access service and provide security assurance for multiple services
- Ring and STP/RSTP/MSTP can achieve network redundancy, preventing network storm
- EPRS function can realize link backup and improve the reliability of network
- Relay alarm is convenient for troubleshooting of construction site
- Storm suppression can restrain broadcast, unknown multicast and unicast
- VLAN is used for simplifying network planning
- Port Trunking and LACP can increase network bandwidth and enhance the reliability of network connection to achieve optimum bandwidth utilization
- IGMP Snooping can be used for filtering multicast traffic to save the network bandwidth
- PoE could power device over Ethernet, thus decreasing the cable connection of powered devices
- Support DDM (digital diagnostic monitoring) function, which can monitor the optical power, temperature and other real-time parameters of SFP fiber module with DDM function, facilitating the link default diagnosis of optical fiber
- Network diagnosis and troubleshooting could be conducted via Ping and cable detection
- Port mirroring can conduct data analysis and monitoring, which is convenient for online debugging

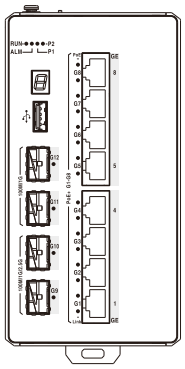
Dimension

Unit: mm

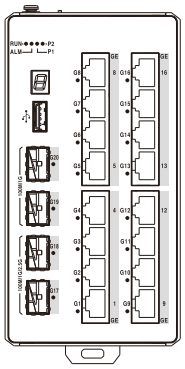
- DC device:



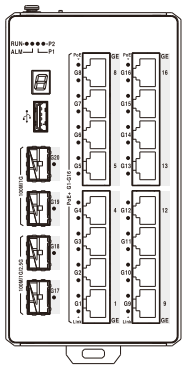
IES6300PRO
-8GT2GS2HS-2Di2Do-2LV



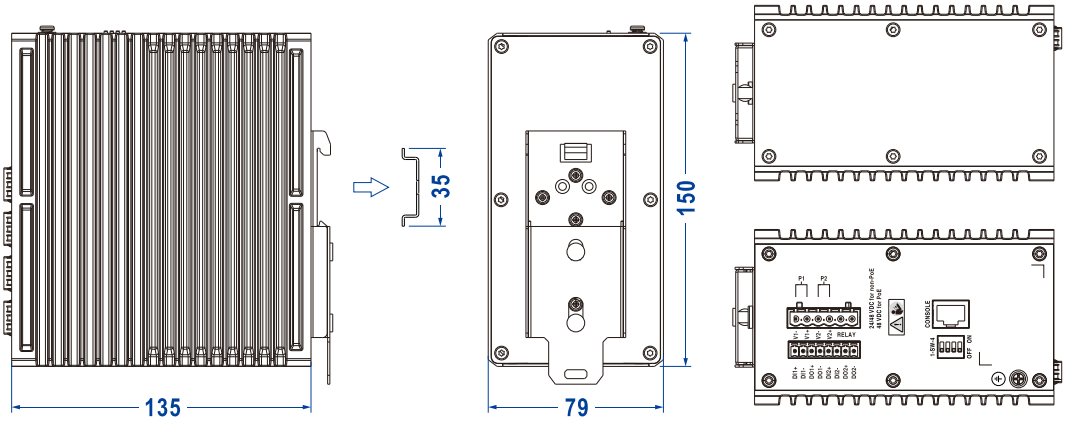
IES6300PRO
-8GP2GS2HS-2Di2Do-2LV



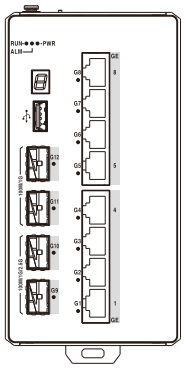
IES6300PRO
-16GT2GS2HS-2Di2Do-2LV



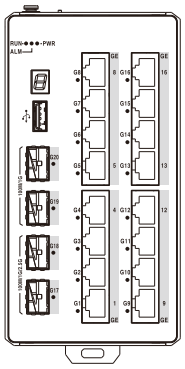
IES6300PRO
-16GP2GS2HS-2Di2Do-2LV



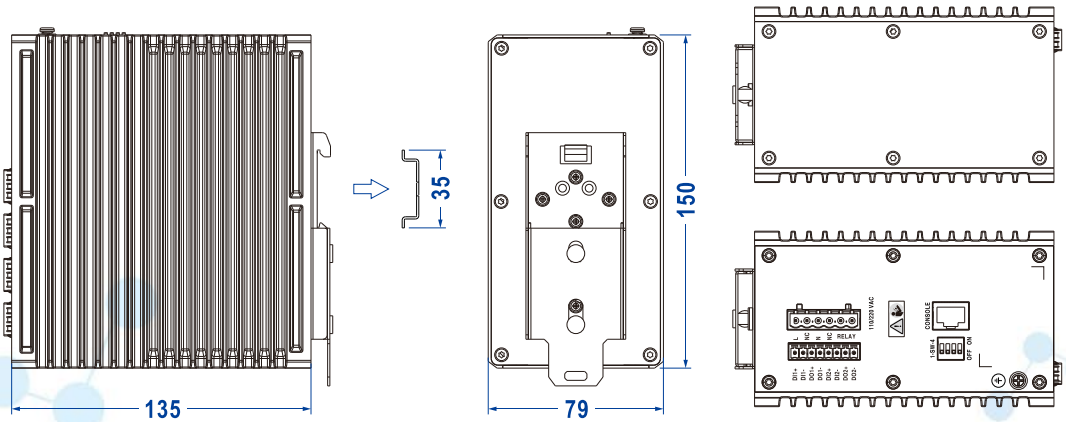
- AC device:



IES6300PRO
-8GT2GS2HS-2Di2Do-HV



IES6300PRO
-16GT2GS2HS-2Di2Do-HV



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X 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 ITU-T G.8032 for ERPS IEEE 802.1Q for VLAN IEEE 802.1p for CoS IEEE 802.1AB for LLDP IEEE 802.3ad for LACP IEEE 802.3af for PoE IEEE 802.3at for PoE+
Management	SNMP v1/v2c/v3 Centralized Management of Equipment, QoS, PoE, DHCP Server, DHCP Snooping, DHCP Relay, Static MAC Address, LLDP, Storm Suppression, User Password, Login Method, File Management, Log Management, Port Statistics
Security	User Privilege Classification, Authentication Method Configuration, SSH Configuration, HTTPS Configuration, Access Control, SNMP, RMON, Port Limit Control, Port Security, NAS, ACL, Ethernet Services, RADIUS Server Authentication, TACACS + Server Authentication, Port Alarm, DC Power Supply Alarm, Loop Protection
Switch Function	802.1Q VLAN, Static Aggregation, LACP
Unicast / Multicast	IGMP Snooping, Unicast MAC
Redundancy Technology	Ring, STP/RSTP/MSTP, ERPS, MRP
Troubleshooting	Ping, Cable Detection, Port Mirroring, DDMI
Time Management	NTP, PTP, Time Zone Configuration
Interface	Gigabit copper port: 10/100/1000Base-T(X) self-adaption, RJ45, full/half duplex, MDI/MDI-X self-adaption Gigabit PoE port: 10/100/1000Base-T(X) self-adaption, RJ45, Full/Half Duplex, MDI/ MDI-X self-adaption. The single port supports 15.4W PoE output power of IEEE802.3af

	standard and 30W PoE+ output power of IEEE802.3at standard, power supply pin: 1/2-, 3/6+ Gigabit SFP Slot : 100/1000Base-X self-adaption or forced mode, SFP slot 2.5G SFP Slot: 100/1000/2.5G Base-X self-adaption or forced mode,SFP slot LED digital tube: support 1 seven-segment LED digital tube, which shows the running status of the device Console port: CLI command line management port(RS-232), RJ45 Alarm port: 6-pin 5.08mm pitch terminal blocks (relay occupies 2 pins), support 1 relay alarm output, the current load capacity is 1A@30VDC or 0 3A@125VAC
Indicator	Running Indicator, Alarm Indicator, Power Supply Indicator, Interface Indicator, PoE Indicator
Switch property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 4Mbit Backplane bandwidth: 58Gbps Switch delay: <10μs
Power Supply	IES6300PRO-8GT2GS2HS-2Di2Do-2LV, IES6300PRO-16GT2GS2HS-2Di2Do-2LV: ● Power supply input: 24/48VDC (12~55VDC) ● Connection method: 6-pin 5.08mm pitch terminal blocks (includes 4-pin power supply on the left side) ● Power supply quantity: dual power supply redundancy backup ● Connection protection: anti-reverse connection IES6300PRO-8GP2GS2HS-2Di2Do-2LV, IES6300PRO-16GP2GS2HS-2Di2Do-2LV: ● Power supply input: 48VDC (44VDC~55VDC) ● Connection method: 6-pin 5.08mm pitch terminal blocks (includes 4-pin power supply on the left side) ● Power supply quantity: dual power supply redundancy backup ● Connection protection: anti-reverse connection IES6300PRO-8GT2GS2HS-2Di2Do-HV, IES6300PRO-16GT2GS2HS-2Di2Do-HV: ● Power supply input: 110/220VAC (85~256VAC/DC) ● Connection method: 6-pin 5.08mm pitch terminal blocks (includes 4-pin power supply on the left side) ● Number of power supply: single power supply

Power Consumption	＜240W (with PD load)
Working Environment	Operating temperature: -40~75℃ Storage temperature:-40~85℃ Relative humidity: 5%～95% (no condensation)
Mechanical Structure	Housing: IP40 protection, metal Installation: DIN-Rail mounting Dimension (W x H x D): 79mm×150mm×135mm
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 ● Contact discharge: ±6kV ● Air discharge: ±8kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 ● DC power supply: ±2kV ● Copper port: ±2kV ● Relay: ±2kV IEC 61000-4-5 (Surge), Level 3 ● DC power supply: differential mode±1kV, common mode±2kV ● Copper port: differential mode±1kV, common mode±2kV Insulation strength: 500VAC, < 10mA Insulation resistance: ≥20MΩ Shock: IEC 60068-2-27 Free fall: IEC 60068-2-31 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Model	Gigabit Copper Port	Gigabit PoE	Gigabit SFP	2.5G SFP	DI (reserved)	DO (reserved)	Power Supply
IES6300PRO-8GT2GS2HS-2Di2Do-2LV	8	—	2	2	2	2	24/48VDC dual power supply
IES6300PRO-8GP2GS2HS-2Di2Do-2LV	—	8	2	2	2	2	48VDC dual power supply
IES6300PRO-8GT2GS2HS-2Di2Do-HV	8	—	2	2	2	2	110/220VAC
IES6300PRO-16GT2GS2HS-2Di2Do-2LV	16	—	2	2	2	2	24/48VDC dual power supply
IES6300PRO-16GP2GS2HS-2Di2Do-2LV	—	16	2	2	2	2	48VDC dual power supply
IES6300PRO-16GT2GS2HS-2Di2Do-HV	16	—	2	2	2	2	110/220VAC

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485
E-mail: ics@3onedata.com
Website: www.3onedata.com

◄ Please scan our QR code for more details

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.