Industrial Ethernet Switches IES3010-3GS

◆ 7+3G-port Gigabit WEB Managed Industrial Ethernet Switch

➢ Features

- 7-port 10/100Base-T(x), 3-port 1000Base-X
- MW-Ring(recovery time < 20 ms at full load)
- Port-based VLAN, IEEE 802.1Q VLAN to ease network planning
- Port Trunking for optimum bandwidth utilization
- Lock port function for blocking unauthorized access based on MAC address
- Store and forward.8k address. Support MAC address filtrate struction
- Port mirroring for online debugging
- Bandwidth management prevents unpredictable network status
- Dual power backup, Relay output warning for power failure and port break alarm
- Port link, ring fault/abnormity alarm indication
- IP 30 protection, rugged high-strength metal case
- Redundant 24VDC power input（12V～36VDC）Operating
- DIN-Rail or panel mounting ability

➢ Introduction

The IES3010-3GS Gigabit managed redundant industrial Ethernet switch is equipped with up to 3 Gigabit Ethernet ports(7-port FE and 3-port GbE), making it ideal for building a Gigabit MW-Ring(No.8,No.9), but leaving a spare Gigabit port for uplink use. The Ethernet redundant MW-Ring (recovery time < 20 ms) can increase system reliability switches and the availability of your network backbone. The IES3010-3GS series is designed with industrial standard, can be suited to the applications in different industrial environments.

The IES3010-3GS series supports numerous intelligent network management functions, including such as QoS, VLAN, Port Trunking, velocity configuration and alarm enabling functions.

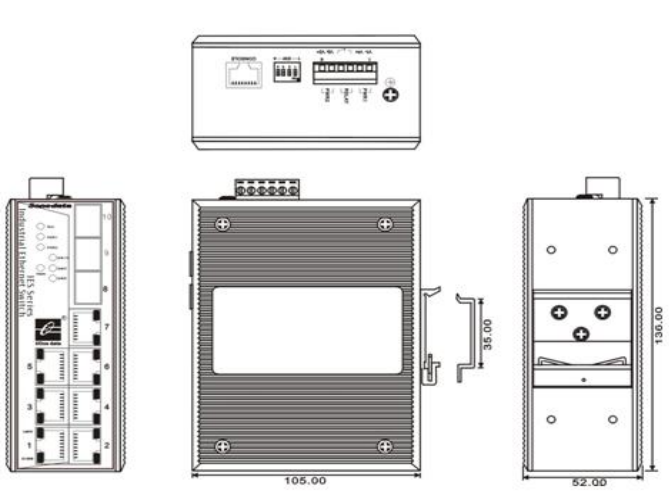
➢ Specification

Interface	
RJ45 Ports	10/100BaseT(X) auto connection, Full /Half duplex or force work mode, and support MDI/MDI-X connection
Fiber Ports	1000BaseSX/LX/LHX/ZX (LC connector),Single-mode: 20, 40,60, 80, 120Km,optional,Multi-mode:0.5Km
Wavelength	850 nm(MM), 1310 nm(SM), 1550 nm(SM)
Debugging Port	Based serial network management (RS-232), RJ45
Alarm output interface	One relay alarm output. Support power, port link and ring network alarm .
Indicator	Port link, ring fault/abnormity alarm indication 10/100M Rate, run indication
Technology	
Standards	IEEE802.3, IEEE802.3x, IEEE802.3u, IEEE802.1Q,IEEE802.1p
Transmit Rate	148810pps

Max Rate of Filtrat	148810pps
Processing type	Store and Forward
System exchange bandwidth	7.6G
MAC address	8K
Port-Based VLAN and 802.1Q VLAN	
Relay	
Max voltage	DC30V
Max current input	1A
Power	
Input Voltage	24VDC (12VDC~36DC),Overload Current Protection
Support dual power backup	
Support dual power alarm input	
Mechanical	
Dimensions	136mm×52mm×105mm (H×W×D)
Casing	IP30 protection, metal case
Installation	DIN-Rail, Wall Mounting
Weight	800g
Environmental	
Operating Temperature	-40 to 70℃
Storage Temperature	-45℃ to 85℃
Ambient Relative Humidity	10 to 95% (non-condensing)
Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2(ESD), Level 4,EN61000-4-3(RS), Level 4,EN61000-4-4(EFT), Level 4,EN61000-4-5 (Surge), Level 4,EN61000-4-6 (CS), Level 4,EN61000-4-8,100A/m,EN61000-4-12
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Warranty	5 years
Approvals	FCC,CE, RoHS approvals

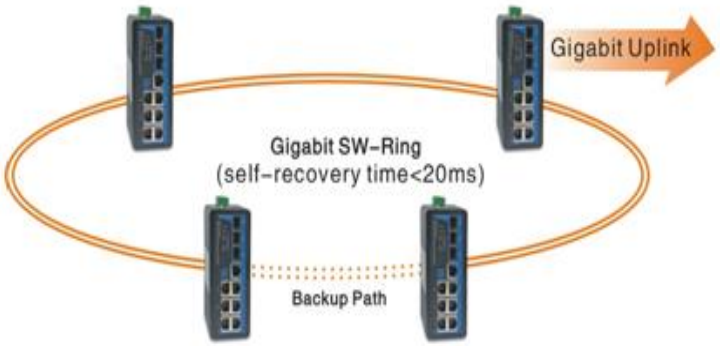
➢ Dimension

Unit:mm



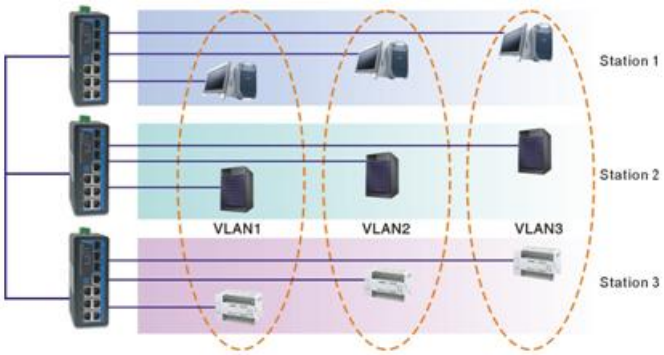
➢ Gigabit Ethernet redundant ring network, and cascade coupling

IES3010-3GS has 3 Gigabit Ethernet ports of which, 2 ports are used for establishment of Gigabit Ethernet (Gigabit MW-Ring) to enable system administrator to establish a stable Gigabit Ethernet. When Gigabit MW-Ring is used, network will be switched to the backup path automatically if one path is interrupted. Thus, your automatic system can be recovered within 20ms. The third Gigabit port can be used for cascade coupling, which can establish Gigabit connection in combination with other control centers for data transmission. With the provision of the third Gigabit port, IES3010-3GS can be used to establish an integral Gigabit Ethernet backbone network.



➢ Optimal Bandwidth Management

VLANs are composed of a group of equipments, which can be arranged at any position on the network. Owing to its communication mode, it seems that all equipments are positioned at the same physical layer. Therefore, VLANs can be used to divide the network to break away from the limitation on physical connection. When the equipment is located on different VLANS, it will be unavailable for connection due to the prevention of unnecessary invasion and flow. IES3010-3GS series industrial switch can support IEEE802.1Q Standard and port based VLAN for the purpose of exchanging coherent parameters and maintaining the coherence of set values for VLAN within the whole network.



➢ QoS used for Improvement of Transmission Accuracy

Quality of Service (QoS) can perform the prior process of important flow to ensure the coherence of important information to be transmitted as anticipated. IES3010-3GS series industrial switches can detect the 2nd layer of IEEE802.1p/1Q, CoS label and even the 3rd layer TOS information for the purpose of coherent classification of information for the whole network. QoS function has improved the efficiency and certainty of critical tasks within the industrial network for prior process.

➢ Bandwidth Management can inhibit unexpected network state

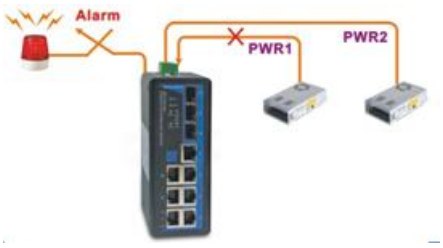
IES3010-3GS series industrial Ethernet switches can also be used for configuration of velocity of in/out single broadcast/multi broadcast/broadcast packet in addition to inhibition of broadcast storm. This bandwidth management function can fully control the limited bandwidth to guard against unexpected error.

➢ Port mirroring function for online monitoring

In some cases, network scale is so big, which is unlikely to reach the expected communication level. As compared with file transmission mode used in the office network environment, more directive response modes are used in the industrial communication applications. This means that it is applicable to use the second port for control engineering to monitor the actual activities between the equipment and host computer at the preliminary establishment of industrial Ethernet. Mirroring port function of IES3010-3GS series can ensure the system operation as expected by us.

➢ Double power supply input and relay output alarm

IES3010-3GS series can provide double power supply backup and 1-route relay alarm output. Redundant double DC power supply input (12V～36VDC) can provide your equipment with uninterrupted operation to further provide additional protection for normal operation of automatic system. 1-route equipment alarm output signal can support power supply and port link alarm. Relay can give out output alarm in case of power supply failure or interruption of port link to notice or remind site engineers to make quick response for appropriate emergency maintenance



➢ Packing List

- Ethernet switch IES3010-3GS (plus terminal block)×1
- Hardware Installation Guide ×1
- CD-ROM with Windows Utility ×1
- Product Warranty Statement ×1
- RJ45 to DB9 Console port cable ×1
- DIN-Rail setting fittings(wall mounting for optional)