ICS5028G Series

16-port 10/100/1000BaseT(x) + 8-port Gigabit Combo + 4-port 10GbE SFP

Layer 3 Managed Industrial Ethernet Switch

Features

1. Support 16-port 10/100/1000BaseT(x), 8-port Gigabit combo and 4-port 10GbE SFP
2. Support IGMP Snooping and GMRP filter multicast packet
3. Support QOS of IEEE 802.1p/1Q TOS/DiffServ to promote network stability
4. Support SNMP v1/v2/v3
5. Support IEEE802.1X, HTTPS, and SSH to enhance network security
6. Support link static / dynamic aggregation to optimize bandwidth
7. Support ACL function to enhance flexibility and security of network management
8. Support bandwidth management, ensuring network stability
9. Support RMON, effectively improve network monitoring and predictive ability
10. Support port mirroring for online debugging
11. Support STP/RSTP/MSTP to enhance network stability
12. Support IEEE802.1Q VLAN for easy network planning
13. Support static routing, RIP, VRRP, OSPF Layer 3 Switching Technology
14. Working temperature: -40℃-75℃
15. Support two 100VAC~240VAC power inputs
16. Support two power supplies for redundancy and high reliability
17. Support two relay alarms to enhance reliability
18. No fan design, industrial and rack-mounted installation



Introduction

The series are high-performance, cost-effective smart rack-mounted industrial layer 3 switches. They are equipped with 16*10/100/1000BaseT(x) Ethernet ports, 8 Gigabit combo ports and 4*10GbE SFP ports. The increase in bandwidth elevates the data transmission capability, and it's very suitable for the application of large-scale industrial network.

ICS5028G-4XGS-8GC-16GT supports IPv4 platform, and various advanced administration functions such as IGMP, GMRP, DHCP Server/Client, STP/RSTP/MSTP, QOS, port mirroring, LLDP, static routing, RIP V1/V2, OSPF, VRRP, etc. The IPv4 layer 3 routing protocol, multicast technologies and policy routing mechanism provide users with complete IPv4 solutions; meanwhile, this series of products also support SNMPv1/v2/v3 (Simple Network Management Protocol), CLI, Web Management, TELNET management for more convenient device management. Combined with enhanced ACL control and anti-attack function, the management will be more secure.

ICS5028G-4XGS-8GC-16GT is in compliance with the FCC and CE standards, and supports 2-way redundant AC inputs and 2-way relay fault alarm output. Users can select flexibly according to actual environment. It adopts industrial no fan design, and is fit for severe industrial environment at a working temperature of -40℃-75℃, which can meet various industrial application requirements and provide reliable and economic solutions for Ethernet access.

Specification

Technology

Standard: IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3ae, IEEE802.3x, IEEE802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1q, IEEE802.1p, IEEE802.1x, IEEE802.3ad

Flow control: IEEE802.3x flow control, Back Pressure flow control

Protocol

IGMP Snooping , GMRP, SNMPv1/v2/v3, QOS, STP/RSTP/MSTP, DHCP Server/Client, DHCP, VLAN, LLDP, SNTP, Telnet,

HTTP/HTTPS, SSH, LACP

Layer 3 Switching Technology

Static routing, RIP V1/V2, OSPF, VRRP, BGP

Interface

RJ45 port: 10/100 /1000BaseT(X), flow control, full / half duplex, adaptive work mode, MDI/MDI-X adaptive

Combo port: 1000Base-X SFP slot or 10/100/1000Base-T(X) RJ45

10GbE SFP port: 10GbE SFP+ (10-Gigabit port)

Console port: CONSOLE Admin Port (RJ45)

Alarm port: 5-core 5.08mm wiring terminal (R+/R-), 2-way relay alarm output

Transmission distance

Twisted-pair: 100m (standard CAT5/CAT5e cable)

Multi-mode fiber: 1310nm, 2km

Single mode fiber: 1310nm, 20/40Km

1550nm, 60/80/100/120Km

LED indicator

Power indicator: P1/P2

Alarm indicator: ALM

Operation indicator: RUN

Port connection / operation status indicator: Link/ACT (1~28)

Switch attribute:

Transmission mode: store-and-forward

MAC address: 16K

Cache: 12Mb

Switched Bandwidth: 128G

100M forwarding rate: 148810pps

1000M forwarding rate: 1488100pps

10000M forwarding rate: 14881000pps

Power Supply

AC input voltage: 100VAC~240VAC

AC input terminal: three-phase socket with rocker switch

Support 2-way AC input

Consumption

No-load consumption: 20W

Full-load consumption: 33W

Mechanical characteristics

Shell: IP30 protection, metal shell

Installation: 19" rack-mounted

Weight: 3.9kg

Dimension (L*W*H): 440mm×285mm×43mm

Working environment

Working temperature: -40℃～75℃

Storage temperature: -40℃～85℃

Humidity: 5%~95% (no condensation)

Certification

Security: UL508 (pending)

EMS: EN61000-4-2 (ESD), Level 4

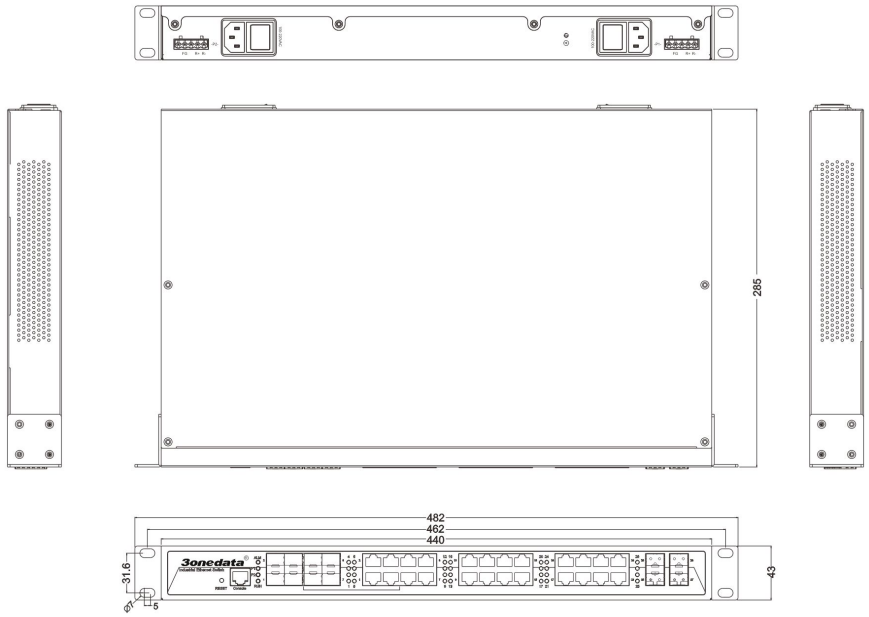
EN61000-4-4 (EFT), Level 4

EN61000-4-5 (Surge), Level 4

Warranty: 5 years

Dimension

Unit (mm)



Ordering Information

ICS5028G-4XGS -8GC-16T-2P (100~240VAC): 16-port 10/100/1000Base-T(X) + 8-port Gigabit Combo + 4-port 10GbE SFP, 2P (100-240VAC)

Packing List

1. Industrial Ethernet switch (plus terminal block) ×1
2. CD x 1
3. User manual x 1
4. Certificate of quality x 1
5. Warranty card x 1
6. Power cable x 2
7. Rackmount ears x 2