ICS5028G Series

Layer 3 Managed Industrial Ethernet Switch

4-port 10GbE SFP + Slot + 8-port Gigabit Combo + 16-port 1000 Base-T(x)

Features

◎ Support 4-port 10GbE SFP + ports (10GbE / Gigabit self-adapting), 8-port Gigabit combo, 16-port 10/100/1000 Base-T(x)

◎ Support IGMP Snooping and GMRP filter multicast packet

◎ Support QoS of IEEE 802.1p/1Q TOS/DiffServ to promote network stability

◎ Support SNMP v1/v2/v3

◎ Support IEEE802.1X, HTTPS, and SSH to enhance network security

◎ Support link static/dynamic aggregation to optimize bandwidth

◎ Support ACL function to enhance flexibility and security of network management

◎ Support bandwidth management, ensuring network stability

◎ Support RMON, effectively improve network monitoring and predictive ability

◎ Support port mirroring for online debugging

◎ Support STP/RSTP/MSTP to enhance network stability

◎ Support IEEE802.1Q VLAN for easy network planning

◎ Support static routing, RIP, VRRP, OSPF Layer 3 switching Technology

◎ Working temperature: -40～75℃

◎ Support two 100~240VAC/DC power inputs

◎ Support two power supplies for redundancy and high reliability

◎ Support two relay alarms to enhance reliability

◎ 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 4 10GbE SFP + ports (10GbE/Gigabit self-adapting), 8 Gigabit combo ports (support 10/100/1000 Base-T(x) Ethernet interface or 1000 Base-SFP interface) and 16 10/100/1000 Base-T(x) Ethernet ports. The increase in bandwidth elevates the data transmission capability, and it's very suitable for the application of large-scale industrial network.

ICS5028G series support 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 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 series are in compliance with the FCC and CE standards, and support 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.

Dimension

Unit (mm)
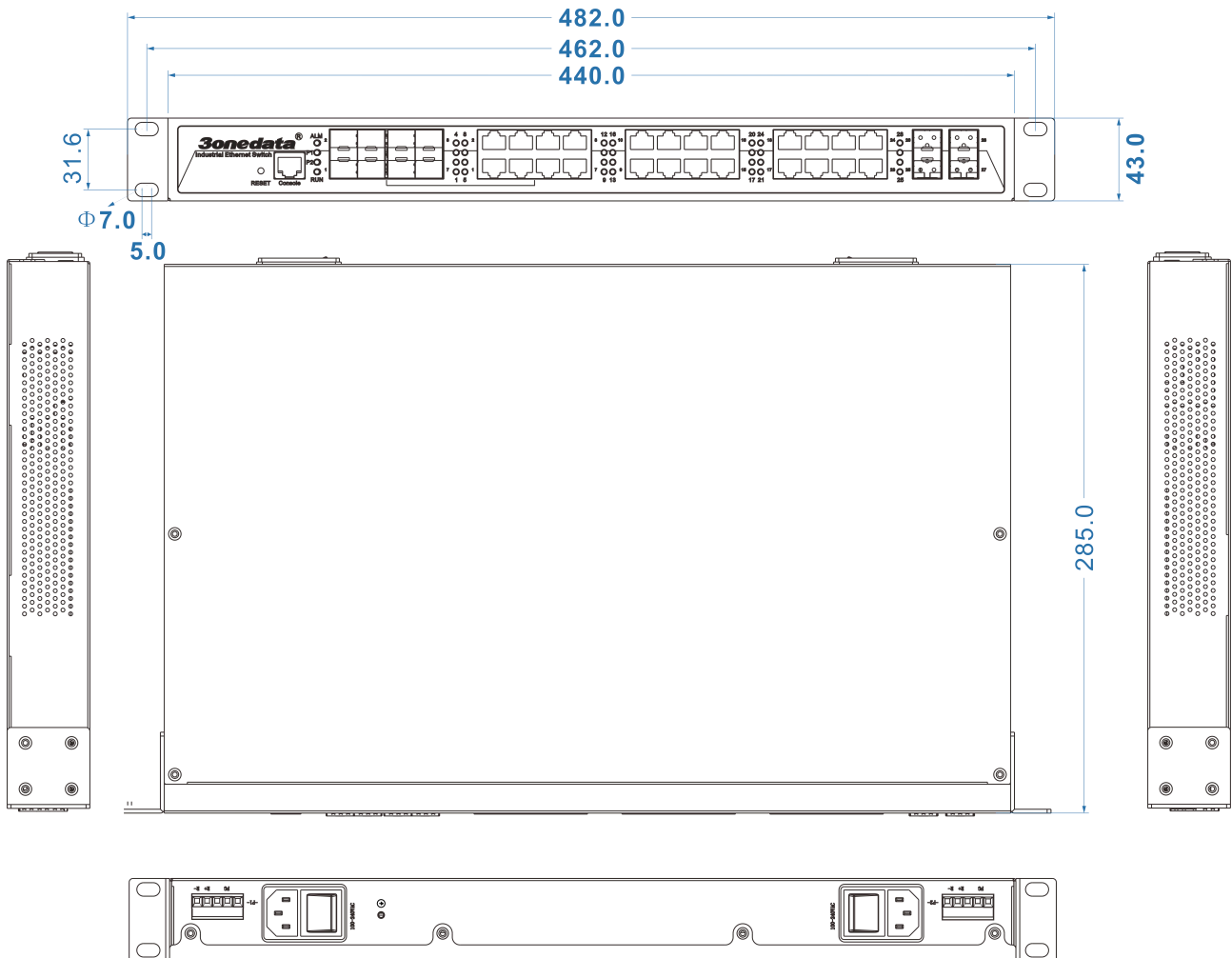
Specification

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

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: 10/100/1000 Base-T(X), flow control, full / half
duplex, adaptive work mode, MDI/MDI-X
adaptive

SFP port: 1000 Base-X (Combo port)
10GbE SFP+ (10-Gigabit port) (10GbE/Gigabit
self-adapting)

Console port: CONSOLE Admin Port (RJ45)

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

Transmission distance

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

Fiber: Multi-mode 850nm/2Km
Multi-mode 1310nm/2Km/5Km
Single mode 1310nm/20/40/60Km
Single mode 1550nm/80/100/120Km

LED indicator

Power indicator: P1/P2

Alarm indicator: ALM

Operation indicator: RUN

Port connection / operation status indicator: Link/ACT

Switch attribute:

Transmission mode: store-and-forward

MAC address: 16K

Packet buffer size: 12Mb

Switched Bandwidth: 128G

100M forwarding rate: 148810pps

1000M forwarding rate: 1488100pps

10000M forwarding rate: 14881000pps

Power Supply

Input voltage: 100~240VAC/DC

AC input terminal: three-phase socket with rocker switch

                 support 2-way AC power input

Consumption

No-load consumption: 20W

Full-load consumption: 28W

Mechanical characteristics

Shell: IP30 protection, metal shell

Installation: 19 inches rack-mounting

Weight: 3.9kg

Dimension (L x W x 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

Ordering Information

Optional model	Port			Input voltage
	10GbE SFP + (10GbE/Gigabit self-adapting)	Gigabit Combo	Gigabit copper port	
Standard model				100~240VAC/DC
ICS5028G-4XGS-8GC-16GT	4	8	16	