

ETHERNET SWITCHES

BENEFITS

- RJ-45 port supports Auto MDI/MDI-X Function
- SFP(Mini-GBIC) supports 100/1000 Dual Mode
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 5.6Gbps
- Wide-range Redundant Power Design
- Power Polarity Reverse Protect
- Support 802.1 Q Tag VLAN
- Port Trunk with LACP
- Per port provides 4 priority queues
- Port Base, Tag Base and Type of Service Priority

- Support IEEE802.1d Spanning Tree
- Support IEEE802.1w Rapid Spanning Tree
- X-Ring, Dual Homing, Couple Ring and
- Provide redundant backup feature and the recovery time below 20ms
- Ingress Packet Filter and Egress Rate Limit
- Broadcast/Multicast Packet Filter Control
- System Log Server/Client
- SMTP e-mail Alert
- Relay Alarm Output System Events
- TFTP Firmware Update and System Configure Restore and Backup

8 10/100TX + 2 10/100/1000T/ Mini-GBIC Combo w/ X-Ring L2 Managed Industrial Switch

SPECIFICATIONS

STANDARD COMPLIANCE

- IEEE 802.3 10Base-T Ethernet, IEEE 802.3u 100Base-TX
- IEEE802.3ab 1000Base-T, IEEE802.3z Gigabit fiber
- IEEE802.3x Flow Control and Back Pressure, IEEE802.3ad Port trunk with LACP
- IEEE802.1d Spanning Tree/ IEEE802.1w Rapid Spanning Tree
- IEEE802.1p Class of Service, IEEE802.1Q VLAN Tag
- IEEE 802.1x User Authentication (Radius), IEEE802.1ab LLDP

HARDWARE SPECIFICATION

Switch Architecture:

- Back-plane (Switching Fabric): 5.6Gbps
- Packet throughput ability(Full-Duplex): 8.3Mpps @64bytes
- Transfer Rate:** 14,880pps for Ethernet port, 148,800pps for Fast Ethernet port, 1,488,000pps for Gigabit Fiber Ethernet port

Memory Buffer:

1Mbits

MAC Address:

8K MAC address table

Flash ROM:

22 Mbytes

DRAM:

8Mbytes

Connector:

- 10/100TX: 8 x RJ-45; - RS-232 connector: RJ-45 type
- 10/100/1000T/ Mini-GBIC Combo: 2 x RJ-45 + 2 x 100/1000 SFP sockets

Network Cable:

- 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable - EIA/TIA-568 100-ohm (100m)
- 100Base-TX: 2-pair UTP/STP Cat. 5/E cable - EIA/TIA-568 100-ohm (100m)

Optical Cable:

- Multi-mode: 50/125 um~62.5/125 um; - Single mode: 9/125 um
- Available distance: 2 km (Multi-mode)/30km (Single-mode)
- Wavelength: 1310 nm (Multi-mode/Single -mode)

Protocol:

CSMA/CD

LED:

- Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red), Master (Green)
- 8 10/100TX: Link/Activity (Green), Full duplex/Collision (Yellow)
- Giga Copper: Link/Activity (Green), Speed (1000Mbps Green)
- SFP: Link/Activity (Green)

Reserve polarity protection:

Present

Power Supply:

DC 12~48V, Redundant power with polarity reverse protect function and removable terminal block

Power Consumption:

9.5 Watts

Operating Humidity:

5%~95% (Non-condensing)

Operating Temperature:

- Standard: -10°~60°C; Wide Operating Temperature (-40°~75°C);
- Storage Temperature: -40°~85°C

Case Dimension:

Metal case. IP-30, (WxDxH) 72 x 105 x 152 mm

Installation:

DIN Rail and Wall Mount Design

EMI:

- FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4

Safety:

UL, cUL, CE/EN60950-1

Stability Testing:

IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

SOFTWARE FEATURE

Management:

SNMP v1 v2c, v3/ Web/Telnet/CLI/NS-View Management

SNMP MIB:

- RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643, RFC 1757, RSTP MIB, Private MIB, LLDP MIB

VLAN:

- Port Based VLAN
- IEEE 802.1Q Tag VLAN (256 entries)/VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.)
- GVRP (256 Groups)

Spanning Tree:

Support IEEE802.1w Rapid Spanning Tree

X-Ring:

Support X-Ring, Dual Homing and Couple Ring Topology.

Provide redundant backup feature and the recovery time below 20ms

Quality of Service:

- The quality of service determined by port, Tag and IPv4 Type of service, IPv4/IPv6 Different Service

Class of Service:

- Support IEEE802.1p class of service, per port provides 4 priority queues

Port security:

Support 100 entries of MAC address for static MAC and another 100 for MAC filter

Port Mirror:

Support 3 mirroring types: "RX, TX and Both packet"

IGMP:

Support IGMP snooping v1, v2; 256 multicast groups and IGMP query

IP Security:

- Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder

Login Security:

Support IEEE802.1X Authentication/RADIUS

Relay Alarm:

- Provides one relay output for port breakdown, power fail

- Alarm Relay current carry ability: 1A @ DC24V

SNMP Trap:

- Up to 3 Trap stations

- Cold start, Port link up, Port link down, Authentication Failure, Private Trap for power status, Port Alarm configuration, Fault alarm, X-Ring topology change

DHCP:

Provide DHCP Client/ DHCP Server functions

SNTP:

Support SNTP to synchronize system clock in Internet

Firmware Update:

Support TFTP firmware update, TFTP backup and restore

Bandwidth Control:

- Support ingress packet filter and egress packet limit

- The egress rate control supports all of packet type and the limit rates are 100K~250Mbps

- Ingress filter packet type combination rules are Broadcast/Multicast/Unknown

Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all of packet. The packet filter rate can be set from 100k to 250Mbps

Configuration upload and download:

- Support binary configuration file for system quick installation

ifAlias: Each port allows importing 128bit of alphabetic string of word on SNMP and CLI interface

Port Trunk with LACP:

4 Trunk groups/Maxi

Flow Control:

- Support Flow Control for Full-duplex

and Back Pressure for Half-duplex

System Log:

Support System log record and remote system log server

SMTP:

Support SMTP Server and 6 e-mail accounts for receiving event alert

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PART NO.	DESCRIPTION
065-7428CG226	8 10/100TX + 2 10/100/1000T/ Mini-GBIC Combo w/ X-Ring L2 Managed Industrial Switch

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