



7028GX12

Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



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Rackmount managed Industrial Ethernet Switch

7028GX12

Industrial 28-port Full Gigabit Managed Ethernet Switch

7028GX12 series are full Gigabit managed industrial Ethernet switches. It supports up to 28 Gigabit ports, which include 12 Gigabit fiber ports; this enhances the networking flexibility. This series supports port mirroring, VLAN, IGMP, QoS, Stp/ Rstp/ Mstp, ACL, and other management, such as Console, Telnet, Web, SNMP, and relay alarm output; it supports layer 3 switching technology(static route/Rip/OSPF/VRPP), which provides safe and reliable solution for industrial automation, intelligent transportation, video transmission, and other industrial application networking access.



High performance CPU & Full Gigabit Switching

- Fiber interfaces: 1000Base-X ports (SC/FC/ST slot)
- RJ45 interfaces:10/100/1000Base-Tports, auto MDI/MDI-X
- Supports multiple combination for Gigabit Ethernet ports and fiber ports
- Non-blocking switch fabric design
- 16K MAC address table
- Supports IGMP Snooping filter multicast packet
- Supports IEEE 802.1Q VLAN
- Supports QoS (IEEE 802.1p/1Q) and TOS/ DiffServ

Intelligent management

- Support Software Utilities:
- -ANMS Network Management System
- LLDP for topology control, auto-topology drawing

Rugged Design for Industrial Control Room and Wayside Network Switching

- IEC61850-3/IEEE1613 compliance for power substation applications
- Excellent heat dissipation design for operating in
- -40~75oC environments
- Supports AC, high voltage DC, and low voltage DC inputs

Cyber Security

- Supports STP/RSTP and MSTP network redundancy, SNMPv1/v2/v3
- Supports link aggregation, improve network bandwidth
- Supports ACL, enhance network management safety
- Support port mirroring, convenient for online debug
- Supports port transmission rate limitation, broadcast/ multicast/ unknown unicast storm limitation
- Supports layer 3 switching (static route/Rip/OSPF/VRPP)
- Supports power, port abnormal status relay output alarm function

Industrial Standards

EMI:

- FCC Part 15, CISPR(EN55022)class A
- EMS:
- IEC(EN)61000-4-2(ESD)
- IEC(EN)61000-4-3(RS)
- IEC(EN)61000-4-4(EFT)
- IEC(EN)61000-4-5(Surge)
- IEC(EN)61000-4-6(CS)
- IEC(EN)61000-4-8
- IEC60068-2-27(Shock)
- IEC 60068-2-32(Freefall)



Ordering Information

Model Name	Interface description		optical port type
	1000Base-X	10/100/1000Base-T	1000Base-X
7028GX12-AC2-8TX-8SFP	8	8	SFP
7028GX12-AC2-16TX-4SFP	4	16	SFP
7028GX12-AC2-16TX-8SFP	8	16	SFP
7028GX12-AC2-16TX-12SFP	12	16	SFP
7028GX12-AC2-24TX-4SFP	4	24	SFP
7028GX12-AC2-8TX-8SC	8	8	SC
7028GX12-AC2-16TX-2SC	2	16	SC
7028GX12-AC2-16TX-4SC	4	16	SC
7028GX12-AC2-16TX-8SC	8	16	SC
7028GX12-AC2-16TX-12SC	12	16	SC
7028GX12-AC2-24TX-2SC	2	24	SC
7028GX12-AC2-24TX-4SC	4	24	SC
7028GX12-AC2-16TX	-	16	-
7028GX12-AC2-24TX	-	24	-

Technology	
Standard	IEEE802.3、IEEE802.3u
	IEEE802.3x、IEEE802.3z
	IEEE802.3ab、IEEE802.1Q
	IEEE802.1p、IEEE802.1D
	IEEE802.1W、IEEE802.1s
	IEEE802.3ad、IEEE802.1x
	协议：ARP、ICMP、TCP、HTTP、IGMP、SNMPv1/v2c/v3,DHCP Server、NTP、Syslog
Performance	
Forwarding rate	1488095pps
Transmission mode	Store and Forward
Number of MAC Address	16K
Cache size	12Mb
Backplane bandwidth	56G
Max. frame length	9216B
Host unicast routing table	512 (IPv4), 256 (IPv6)
Interface	
Ethernet Port	Fiber interfaces: 1000Base-X ports (SC/FC/ST slot) RJ45 interfaces:10/100/1000Base-Tports, auto MDI/MDI-X
System LED	Power indication light, network indication, RJ45 indication light, Alarm indication light, Running indication light.
Transmission Distance	Cat.5e: 100m Patch cord Single-mode: 1310nm 20/40/60Km 1550nm 80/100/120Km Multi-mode: 1310nm 2Km
SFP LED	Port: Link (Green On), Activity (Green Blinking); 1000M: Speed 1000M (Amber On), Speed 100M (Off)
Reset	System Reboot(10 Seconds)
Console	1 x RS232 in RJ45 for System Configuration. Baud Rate: 115200.n.8.1,
Power Input	4-Pin Removable Terminal Block Connector for Redundant Power
Power Requirement	
Input Voltage	110/220VAC(88~264)/50-60Hz or 110/220VDC(88~264VDC) It adopts single power input, with optional dual power redundant input
Input Current	0.14A @ 220V
Power Consumption	Rated power: 30W

Software		
Management	IPv4/IPv6(RFC2460), Telnet, SNMP v1/v2c/v3, SNMP Trap, LLDP, DHCP Server/Client/Option 82, TFTP, System Log	
Traffic Management	Flow Control, Rate Control, Storm Control, CoS, QoS, RFC 2474 DiffServ	
Filter	IGMP Snooping , IEEE802.1Q VLAN, QinQ, Private VLAN	
Security	IEEE 802.1X/RADIUS, TLS v1.2, Access Control List (ACL, MAC/IP/ARP filter), HTTPs/SSH secure login, First login password management	
Advanced Security	DHCP Snooping/IPSG, Dynamic ARP inspection	
Redundancy	ERPSv2 Plus, ITU-T G.8032 v1/v2 Ethernet Ring Protection Switching (ERPSv2), Rapid Spanning Tree Protocol/Spanning Tree Protocol (RSTP/STP), Multiple Spanning Tree Protocol (MSTP)	
Time Management	NTP	
Utility	AIAS, ANMS(By Request)	
MIB	ERPS MIB, MIB-II, Ethernet-like MIB*, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RMON MIB Group 1, 2, 3, 9*, Private MIB	
Diagnostic	LLDP, Ping, Event Log	
Mechanical		
Installation	Rackmount	
Enclosure Material	Aluminum shell	
Dimension	Dimension(W x H x D): 440mm x 44mm x 315mm Package dimension: 530mm x 108mm x 390mm	
Ingress Protection	IP40	
Weight	<4440g	
Environmental		
Operating Temperature	-40°C-85°C	
Humidity	0%~95% Non- Condensing	
Storage Temperature	-40°C-85°C	
MTBF	>2,000,000 hours	
Warranty	5 years	
Standard		
FCC	FCC Part 15,CISPR(EN55022) class A	
CE	EN61000-3-2/EN61000-3-3, EN55035 Compliance	
100Base FX		
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm
1000Base FX		
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-LX-10 (10km)	Wavelength: 1310 nm

Installation dimensions

