428GX4
Datasheet

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

AVCOMM

RACK-MOUNTED UNMANAGED INDUSTRIAL ETHERNET SWITCH

428GX4

Rack-mounted 24+4G Gigabit Ethernet Switch

AVCOMM 428GX4 Rack-mounted 24+4G Gigabit Ethernet Switch offers 24 10/100M Auto Negotiation twisted pair cable ports, each supporting automatic MDI/MDIX function, which not only soothes the inconvenience of cable making and use, but also enables the "pluggable" installation. Both straight-through cable and crossover cable can connect any port of 428GX4 to any port of other network devices. With energy-saving technology, by detecting network cable length and workload, signal intensity in 428GX4 switch can be automatically adjusted, hence effectively reduce energy consumption. The product is convenient to be installed and highly cost-effective, thus an ideal choice for increasing the server running speed in application of video surveillance, and electrical OEMs.

FC CE cULus IEC61000-6-2 IEC61000-6-4

Features & Benefits

INTERFACE

- Optical fiber port: Four(4) 1000Base-X (SFP/SC/ST)
- RJ-45 port: Twenty-four(24) 10/100BaseT (X) ports, automatic detection, Auto Negotiation to full duplex/half duplex MDI/MDI-X
- LED indicator lamp: PWR1 and PWR2 power indicator lamps, FAIL power failure indicator lamps, G1 and G2 optical fiber indicator lamps, RJ-45 indicator lamp
- Alarm contact: One-way relay output, NO/NC capacity 1A @ 24VDC

MECHANICAL PROPERTY

- Casing: Protection grade IP40
- Method of installation: Rack-mounted installation
- Dimension (W×H×D): 440 mm × 44 mm × 315 mm

POWER SOURCE

- Power supply: 100/220VAC(88-264VAC)/50-60Hz or 110/220VDC(88-264VDC), Single power supply input
- Surge voltage protection (Ethernet):±8V contact discharge ±15V air discharge 4000V (10/700 µs) (common mold)
- Lightning surge protection (power source): 5000A (8/20 µs)
- Terminal block: One pluggable 5-pin wiring terminal
- Overload protection: Available
- Reverse voltage protection: Available

WORKING ENVIRONMENT

- Working temperature: -40 to +85℃
- Storage temperature: - 40 to +85℃
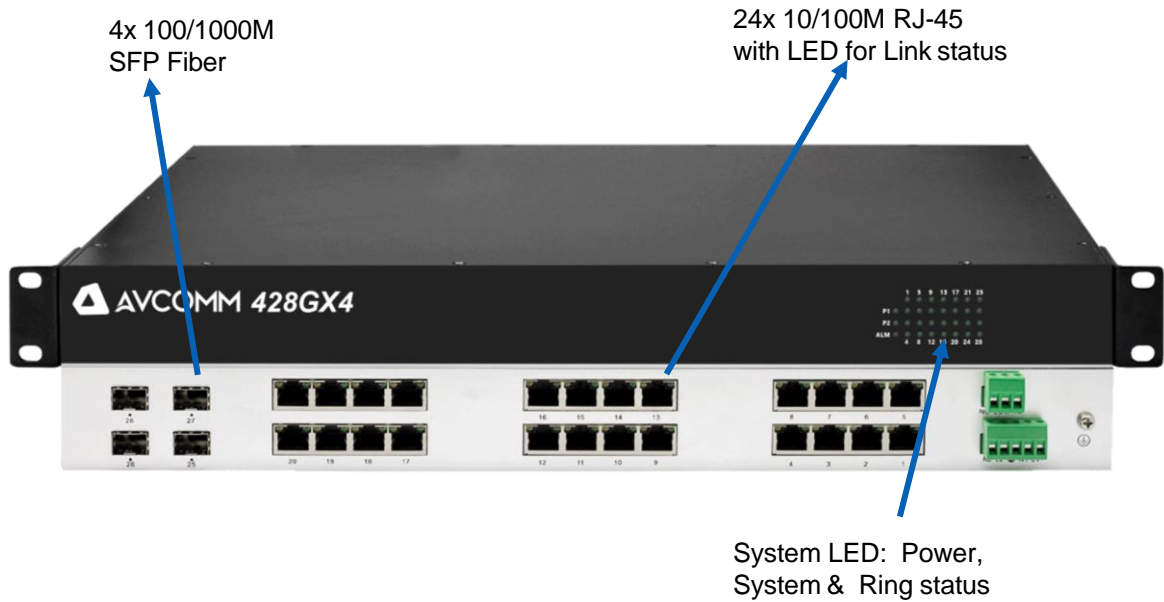- Relative humidity: 5% - 95% (no condensation)

🛒 Ordering Information

Model Name	Description
428GX4	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 SFP Slots 1000BaseSFP+, Rack-mounted, Single Power Input 110/220VDC (88-264VDC), -40°C to +85°C
428GX4-SC	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, SC style connector), Rack-mounted, Single Power 110/220VDC(88-264VDC), -40°C to +85°C
428GX4-ST	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, ST style connector), Rack-mounted, Single Power Input 110/220VDC(88-264VDC), -40°C to +85°C
428GX4-AC2	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 SFP Slots 1000BaseSFP+, Rack-mounted, Single Power Input 100/220VAC (88-264VAC), -40°C to +85°C
428GX4-SC-AC2	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, SC style connector), Rack-mounted, Single Power Input 100/220VAC (88-264VAC), -40°C to +85°C
428GX4-ST-AC2	28-Port Industrial Unmanaged Ethernet Switch, 24 RJ45 10/100BaseT(X), 4 1000BaseFX (Multimode, ST style connector), Rack-mounted, Single Power Input 100/220VAC (88-264VAC), -40°C to +85°C

⚙ Specifications

Technology	
Standard	IEEE 802.310BaseT
	IEEE 802.3u 100BaseT(X) and100Base Fx
	IEEE 802.3z

Performance	
Switch Technology	Store and Forwarding Technology with non-blocking
Number of MAC Address	8 K
Packet Buffer Memory	3 MB
Backplane bandwidth	12.8 Gbps
Forwarding rate	1488095pps
Maximum frame length	2 KB

Interface	
Ethernet Port	24 x 10/100BasetT(x)RJ-45 , 4 1000BaseFX , Auto Negotiation
System LED	2 x Power: Green On ;1 x DI Alarm: Red On；
Ethernet Port LED	Link (Green On), Active (Green Blinking)
Power Input	5-Pin Removable Terminal Connector (V-/N, V+/L, V-/N, V+/L)

Power Requirement	
Input Voltage	100–240 VAC(88-264VAC)50-60Hz or 110/200VDC(88-264VDC),
Reverse Polarity Protect	Yes
Power Consumption	30W

Mechanical	
Enclosure Material	Metal
Dimension	440 mm × 44 mm × 315 mm
Ingress Protection	IP40
Weight	<4440g
Installation method	Rack-mounted

Environmental	
Operating Temperature & Humidity	-40℃~ +85℃ , 0%~95% Non- Condensing
Storage Temperature	-40℃~ +85℃
MTBF	>2,000,000 hours
Warranty	5 years

Standard	
EMI	FCC Part, 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 IEC 60068-2-27 (Shock) IEC 60068-2-32 (Freefall)

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

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Function interface

4x 100/1000M
SFP Fiber

24x 10/100M RJ-45
with LED for Link status

System LED: Power,
System & Ring status

Installation dimensions

Unit: inch ±0.040 / [mm] ±1.00

Ø0.27[6.8]

18.31 [465.10mm]
19.00 [482.60mm]
1.73 [44.00mm]

Rear view

12.40 [315.00mm]

17.32 [440.00mm]

Left side view   Top view   Right side view

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Front view