

## CM2028-4GF12F12T

28-Port industrial Ethernet switch, with 4× Gigabit optical ports, 12×100Mbps optical ports and 12×100Mbps electrical ports



- Provides 4× Gigabit optical ports, 12×100Mbps optical ports and 12×100Mbps electrical ports.
- Copper ports support 10/100Mbps self-adaptive and support MDI/MDIX.
- Applicable voltage range AC/ DC85-265V or DC18-60V Optional.
- Industrial EMC level 4 standard.
- Fanless design with heat-dissipating coated iron shell; built-in industrial-grade power supply.
- Working environment: -40°C ~75°C.



### Product profile

CM2028-4GF12F12T is a rack-mounted industrial Ethernet switch, with 4× Gigabit optical ports, 12×100Mbps optical ports and 12×100Mbps electrical ports. It adopts fanless, low-power, industrial-grade design with an IP40 protection level. It has the characteristics of simple and flexible use, easy installation, low cost, and high performance.

It can operate within a temperature range of -40 to 75°C, it's extremely durable and can withstand harsh outdoor environments, with high EMI/EMC protection capabilities. Each product has undergone 100% aging tests to ensure quality. It has been widely used in Ethernet communication systems for the security industry.

### Product features

- Fanless design, IP40 protection level;
- Heat-dissipating coated iron shell; built-in industrial-grade power supply;
- Industrial EMC level 4 standard;
- Applicable voltage: AC/DC85~265V or DC18-60V Optional;

### Product properties

#### Applicable standards

IEEE 802.3 10Base-T

IEEE 802.3u 100Base-T&100BaseFX

IEEE 802.3z 1000BaseFX

#### Switching features

Back plane bandwidth: 12.8 Gbps

List of MAC addresses: 8K

Message buffer size: 3 Mbit

#### Port

Fiber port: 1000 Mbps (port type: SFP slot)

100 Mbps (port type: SC, ST, FC optional)

Copper port: 10/100Mbps self-adaptive, Full/Half duplex mode, MDI/MDI-X supported, transmission distance: 0-100m.

LED indicator: PWR, Link, SPD

#### Power source requirement

Input voltage: Supports two-way redundancy backup,

AC/DC85~265V or DC18-60V Optional

#### Physical properties

Enclosure: Iron shell IP40

Size: 440 mm\*320 mm\*44 mm

Weight: 3100g

Mounting method: Rack-mounted

#### Environmental restrictions

Working temperature: -40 ~ 75°C (-40 ~ 167°F)

Storage temperature: -40 ~ 85°C (-40 ~ 185°F)

Relative ambient humidity: 5 ~ 95% (non-condensing)

#### Standards and certification

##### EMI:

FCC Part 15/CISPR22 (EN55022) : Class A

##### EMS:

IEC 61000-4-2 ESD level 4, IEC 61000-4-3 RS level 3,

IEC 61000-4-4 EFT level 4, IEC 61000-4-5 Surge level 4,

IEC 61000-4-6 CS level 3

Anti-vibration performance: IEC 60068-2-6

Shock resistance: IEC 60068-2-27

Free fall: IEC 60068-2-32

Certification: CE, FCC, RoHS

MTBF (mean time between failures)

Time: 500,000 h

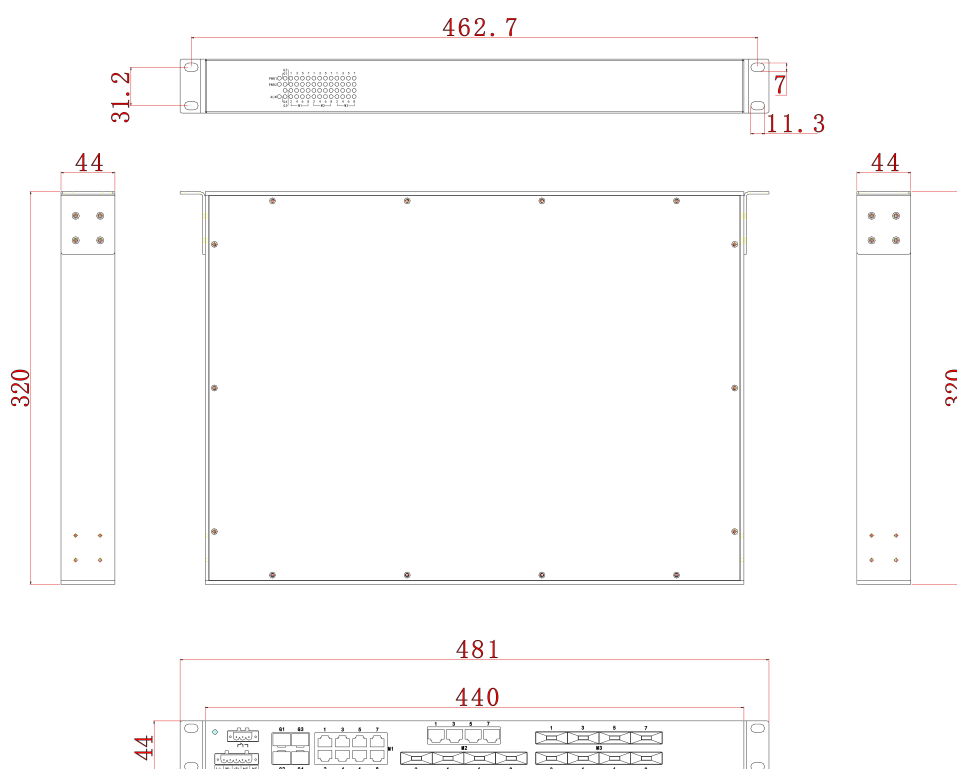
#### Warranty

Quality assurance: 5 years

## Fiber properties

	1000BaseFX		100BaseFX	
	Multi mode	Single mode	Multi mode	Single mode
Wavelength	850 nm	1310 /1550nm	1310 nm	1310 /1550nm
Maximum transmission power	-3 dBm	0 dBm	-12 dBm	0 dBm
Minimum transmission power	-9 dBm	-10 dBm	-20 dBm	-15 dBm
Receiving sensitivity	-19 dBm	-22 dBm	-28 dBm	-32 dBm
Link budget	10 dB	12 dB	8 dB	17 dB
Typical distance	550 m	20 km	2km	20 km
Saturation	-3 dBm	-3 dBm	-3 dBm	-3 dBm

## Product size (mm)



## Order information

Optional model	Port type			
	10/100BaseT	10/100/1000BaseT	100BaseFX	1000BaseFX
			Single mode/Multi mode	
CM2028-4GF12F12T-AC/DC85~265V	12	—	12	4
CM2028-4GF12F12T-AC/DC85~265V(redundancy)	12	—	12	4
CM2028-4GF12F12T-DC18-60V	12	—	12	4
CM2028-4GF12F12T-DC18-60V(redundancy)	12	—	12	4

#### **Packing list**

- Ethernet Switch
- Installation Accessories
- User Manual
- Warranty Card & Certificate of Conformity