

CP-ANW-GPM4F2T-N12

4 Ports Gigabit Managed PoE Switch with 2 SFP Ports

- Supports IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3x, IEEE 802.3at and IEEE 802.3af standards.
- 4 × Gigabit PoE+ ports and 2 × SFP uplink ports for high-speed connectivity.
- Provides PoE output up to 30W per port with a total PoE power budget of 130W.
- Layer-2+ managed switch with supports VLAN, QoS, ACL, port mirroring, link aggregation (LACP).
- Support ERPS Link redundancy.
- Store-and-forward switching mode with 8K MAC address auto learning and auto-ageing.
- Advanced security features including DHCP snooping, IP source guard, storm control and DoS prevention.
- Supports STP, RSTP and MSTP for loop protection and reliable network operation.
- LED indicators for power, PoE, link and activity status monitoring.
- SNMP (V1/V2c/V3) for easy configuration and monitoring.



System Overview

As most of the CP PLUS products have been integrated with the Power of Ethernet technology which makes troubleshooting easier in case any errors occur. This can be done with the help of a PoE Switch makes increases reliability rapidly.

Functions

Web GUI Management

The switch offers an intuitive, secure Web-based GUI that lets users easily configure, monitor, and manage network settings from any browser. With HTTPS access and tools for firmware updates, backups, port setup, and diagnostics, even non-technical users can manage the network without command line skills, helping simplify administration and reduce downtime.



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Functions

VLAN Support

The switch supports VLAN, enabling secure and efficient traffic separation. Users can isolate camera, voice, or data networks to improve performance, enhance security, and reduce broadcast interference, especially useful for stable video streaming in surveillance setups.

QoS (Quality of Service)

The switch offers advanced QoS with multiple scheduling methods to prioritize critical traffic like video. By classifying packets and applying rate limits, it ensures smooth video playback and clear voice communication even during heavy network load.

Spanning Tree

The switch uses spanning tree protocol to prevent network loops and maintain connectivity even if a link fails. There are features to avoid misconfigurations, giving users a stable, high-uptime network ideal for surveillance environments.

ACL (Access Control List)

The switch supports up to ACL rules for precise control over which devices or traffic types can access the network. This helps block unauthorized users, filter specific protocols, and protect sensitive segments, ensuring only trusted devices communicate across the system.

About CP PLUS

The brand that is on its way to lead the world when it comes to the security and surveillance industry, CP PLUS, keeps bombarding the market with the most reliable range of products that have been designed carefully and methodically to automate the whole surveillance and security process, no matter how big your premises are.

It was the initiative to help the public in the area where they are the most vulnerable and to empower the sense of safety in our hearts that had conceptualized CP PLUS. And embarking on its mission to make the world a safer and more secure place has taken the brand's journey to unprecedented levels even when compared to international competitors.



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| Feature | Specification |
|------------------------|---|
| Network Port | 4 x 10/100/1000Mbps RJ45 Ports 2 x 1000Mbps SFP Ports 1 x Console Port |
| Network Medium | 10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) |
| Switching Capacity | 12Gbps |
| Packet Forwarding Rate | 8.928Mpps |
| Packet Buffer Memory | 4.1Mbit |
| MAC Address | 8K |
| LEDs Indicator | System indicator: SYS (Green), Network Indicator: Link (Yellow), SFP Indicator: L/A (Green), Power Indicator: Green |
| Network Standard | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE802.3i, IEEE802.3z, IEEE802.3x |
| Ethernet Port Feature | 10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive |
| SFP Port | Gigabit SFP optical fiber interface, Default matching optical modules, Need to buy separately, (optional order mode/ multi-mode, single fiber/ double fiber optical module) |
| PoE Standard | 802.3af/at |
| Forwarding Mode | Store-and-Forward (Full Wire Speed) |
| PoE Pin Definition | 1/2(+),3/6(-) |
| PoE Power Budget | 130W |
| Redundant Power Input | 2 Sets of V+, V- redundant DC power interface (4 Pin Phoenix terminal) |
| Power Supply | 48V DC |
| Power Consumption | Standby:<10W(NOT PoE), Full load:<130W(with PoE) |
| Operation Temperature | -40 ~ +75°C (-40°F to 167°F) |
| Operating Humidity | 5%~90% non-condensing |

| Feature | Specification |
|----------------------|---|
| Storage Temperature | -40 ~ +85°C (-40°F to 185°F) |
| Storage Humidity | 5%~95% non-condensing |
| Dimension | 135mm x 97.8mm x 38.1mm |
| Weight | ≤1kg |
| Optical Cable | Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM |
| PoE Functionality | Input voltage ≥ 48V support PoE Input voltage < 48V (e.g., 12V, 24V) Non PoE |
| Lightning Protection | Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±2kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±2kV/DM±1kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard) |

Software Specification

| | |
|------------------|---|
| Port | Support IEEE802.3x flow control (full duplex) Support for broadcast storm suppression based on port rate Support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps Support port temperature protection settings Support port IEEE green Ethernet energy saving configuration |
| VLAN | Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Voice VLAN Support for MAC address-based VLANs Support Access, Trunk, Hybrid three types of port configuration |
| Port Aggregation | Support LACP Support static polymerization Support the largest 8 aggregation groups; each aggregation group supports 8 ports |

| Feature | Specification |
|----------------------------------|---|
| Multicast | Support IGMP Snooping V1/V2 and support 1024 multicast groups at most Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN |
| Mirror | Bi-directional traffic mirroring supporting the basic port |
| Spanning Tree | Support STP (IEEE802.1d) Support RSTP (IEEE802.1w) Support MSTP (IEEE802.1s) |
| Industrial Ring Network Protocol | Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring The self healing time of the ring network is less than 20ms |
| QoS | Support Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) Support priority tag Mark/Remark Support stream based packet filtering Support for stream based redirection Support flow based speed limit |
| ACL | Support L2 to L4 packet filtering function, match the first 80 bytes of the message Provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL Support ACL based on port and VLAN |
| Safety Characteristics | Support user grading management and password protection Support IEEE802.1X authentication / centralized MAC address authentication Support AAA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2.0 to provide secure passwords for user login Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP+MAC+VLAN+ ports |

| Feature | Specification |
|---------------------|---|
| DHCP | Support DHCP Client Support DHCP Snooping |
| Management | Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, SFTP file download management Support SNMP V1/V2C/V3 Support one bond reduction Support NTP clock Support system work log Support Ping detection Support cable state detection Support CPU instant utilization status view Support link layer discovery protocol LLDP center |
| System Requirements | Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later Cat5e or later Ethernet cable TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on every computer in the network |
| Certificates | ISO 9001: 2015, ISO 20000-1 : 2018, ISO 14001 : 2015, ISO 45001 : 2018, ISO 50001:2018, CE, FCC and RoHS, TEC/ MTCTE |

Published Date –24-04-2026