

CP-2404G

24+4 Port Industrial Managed PoE+ Gigabit L3 Switch



- 24x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 1000F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle



Specifications

Technology

- IEEE 802.3 10BaseT
- IEEE 802.3u 100BaseTX
- IEEE 802.3ab 1000BaseT
- IEEE 802.3z 1000BaseX
- IEEE 802.3x Flow Control
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at PoE+
- IEEE 802.3ad/802.1AX LACP
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1w Rapid STP
- IEEE 802.1s Multiple STP
- ITU-T G.8032 / Y.1344 ERPS
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1ad Stacked VLANs
- IEEE 802.1p Class of Service
- IEEE 802.1X Network Authentication
- IEEE 802.1AB LLDP
- IEEE 1588 PTP

Standards

Processing Type Store and Forward

Switch Properties

Switch Fabric 56Gbps
Priority Queues 8 Queues
Jumbo Frame 9216bytes
MAC Table Size 16K
Packet Buffer 12Mbits
VLAN Table Size 4094

IGMP Group 512
ACL Group 512
VLAN IP Entries 64
Routing Entries (IPv4/IPv6) 512/256 host, 64/64 LPM

Software Feature

Network Redundancy RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security 802.1X, RADIUS, TACACS+, SSL, SSH
Management IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, DDM
Configuration DHCP Server/Client, Relay Option 82, TFTP, USB
Filter 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync. NTP, IEEE1588v2 OC (Software Timestamp), BC (Software Timestamp), TC (Hardware Timestamp)
QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE Powering Status, PoE Monitoring, Scheduling, PD Alive Check, PoE Priority

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|----------------------------|---|
| Industrial Profiles | Ethernet/IP, Modbus TCP |
| L3 Switching | Static Routing, RIP v1/v2, OSPF v2, VRRP v2 |
| Interface | |
| RJ45 Port | 24x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X |
| Fiber Port | 4x 1000F(x) SFP Slot |
| PoE Pin Out | V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A |
| LED Indicators | Per unit: PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber) PoE: Output Power |
| Alarm Contact | 1x relay output with current carrying capacity of 1A @ 24 VDC |
| Digital Inputs | 1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA |
| Button | Multiple functions reset button |
| Serial Console | 1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1 |
| Storage | 1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog |
| Power Requirements | |
| Operation Voltage | 90~264VAC, 48~57VDC, redundant dual inputs, >50VDC for PoE+ output recommended |
| Connection | AC socket, DC 4-pin terminal block |
| Power Consumption | 26W without PDs' consumption |
| PoE Power | Max. 377W@AC with derating (50°C to |

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| Budget | 70°C, 2.5%/°C) or 720W@DC, for total PD consumption, Max. 30 W per PoE port |
| Protection | Overload Current Protected, Reverse Polarity Protected |

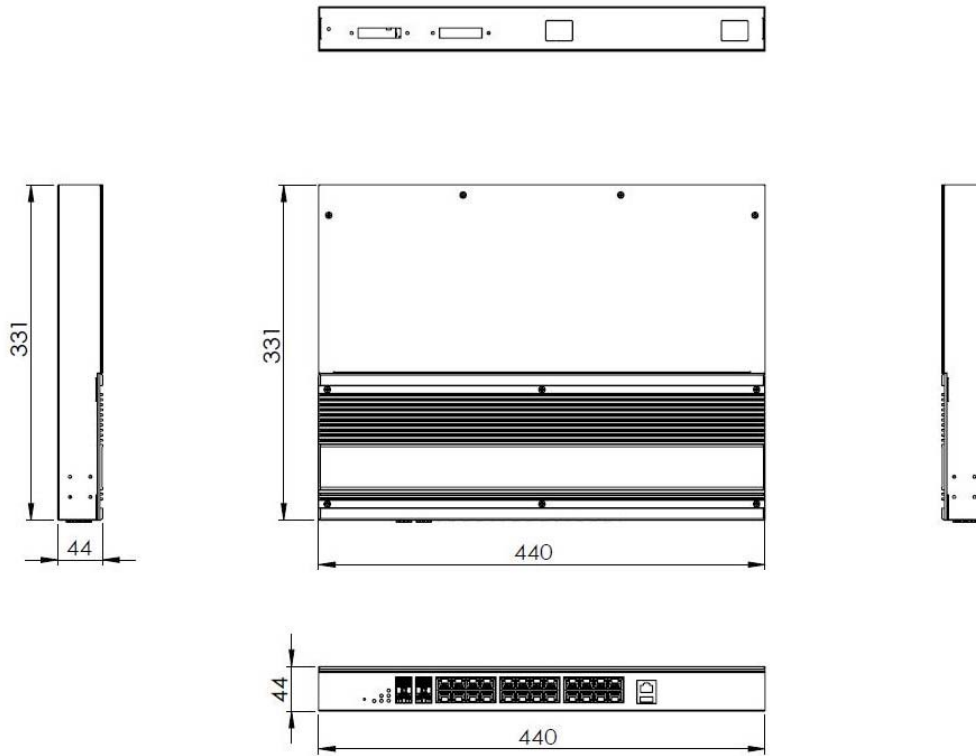
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|--------------------------------|-----------------------|
| Mechanical Construction | |
| Enclosure | Aluminum / Steel met |
| Protection Class | IP30 |
| Dimensions | 440x44x331 mm (WxHxD) |
| Weight | 6.00 kg |
| Mounting | Rack Mounting |

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| Environmental Limits | |
| Operating Temperature | Standard: -20°C ~ 60°C (-4°F ~ 140°F) Extended: -40°C ~ 75°C (-40°F ~ 167°F) |
| Storage Temperature | -40°C ~ 85°C (-40°F ~ 185°F) |
| Ambient Relative Humidity | 5 to 95%, (Non-Condensing) |

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| Regulatory Approvals | |
| EMI | FCC Part 15 Subpart B Class A CE EN 55032 Class A |
| EMS | IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field) |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| MTBF | >100,000 hours |
| Warranty | 5 Years |

Features with star(*) implies those are under development. In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

Dimensions (unit = mm)



Ordering Information

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|-----------------------|---|
| CP-2404G-1AC | 24+4 Port Industrial Managed PoE+ Gigabit L3 Switch - 24x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot - Operating Temperature: -20°C ~ 60°C (-4°F ~ 140°F) - 1x 90~264VAC Power Input |
| CP-2404G-1AC-T | 24+4 Port Industrial Managed PoE+ Gigabit L3 Switch - 24x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 1x 90~264VAC Power Input |
| CP-2404G-AD | 24+4 Port Industrial Managed PoE+ Gigabit L3 Switch - 24x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot - Operating Temperature: -20°C ~ 60°C (-4°F ~ 140°F) - 1x 90~264VAC Power and 1x 48~57VDC Power Input |
| CP-2404G-AD-T | 24+4 Port Industrial Managed PoE+ Gigabit L3 Switch - 24x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 1x 90~264VAC Power and 1x 48~57VDC Power Input |
| CP-2404G-DC-T | 24+4 Port Industrial Managed PoE+ Gigabit L3 Switch - 24x 10/100/1000T(x) with 30W PSE + 4x 1000F(x) SFP Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 2x 48~57VDC Robust Isolation Power Input |

Optional Accessories

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| NDR-120-48 | Industrial DIN-Rail Power Supply with 48VDC Output, provide max. 120W Power |
| NDR-240-48 | Industrial DIN-Rail Power Supply with 48VDC Output, provide max. 240W Power |
| NDR-480-48 | Industrial DIN-Rail Power Supply with 48VDC Output, provide max. 480W Power |