

# CP-0802G

## 8+2 Port Industrial Managed PoE+ Gigabit L3 Switch



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 2x 100/1G/2.5GF(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 802.3az Energy-Efficient Ethernet
- IEEE 802.3ad/802.1AX LACP

#### Standards

- 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

**Processing Type** Store and Forward

#### Switch Properties

**Switch Fabric** 20Gbps

**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

<b>Industrial Profiles</b>	Ethernet/IP, Modbus TCP, Profinet
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<b>L3 Switching</b>	Static Routing, RIP v1/v2, RIPng, OSPF v2, OSPF v3, VRRP v2
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## Interface

<b>RJ45 Port</b>	8x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
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<b>Fiber Port</b>	2x 100/1G/2.5GF(x) SFP Slot
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<b>PoE Pin Out</b>	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A
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<b>LED Indicators</b>	<b>Per unit:</b> PWR1, PWR2, Fault, Ring Master, Ring State <b>Ports:</b> Link/Active with highest speed(Green), low speed(Amber) <b>PoE:</b> Output Power
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<b>Alarm Contact</b>	1x relay output with current carrying capacity of 1A @ 24 VDC
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<b>Digital Inputs</b>	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
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<b>Button</b>	Multiple functions reset button
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<b>Serial Console</b>	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
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<b>Storage</b>	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
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## Power Requirements

<b>Operation Voltage</b>	48-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
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<b>Connection</b>	1x removable 4-contact terminal block
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<b>Power Consumption</b>	0.35A@48VDC without PDs' consumption
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<b>PoE Power Budget</b>	Max. 240 W for total PD consumption, Max. 30 W per PoE port
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<b>Protection</b>	Overload Current Protected, Reverse Polarity Protected
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## Mechanical Construction

<b>Enclosure</b>	Aluminum
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<b>Protection Class</b>	IP30
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<b>Dimensions</b>	72x145x118 mm (WxHxD)
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<b>Weight</b>	0.90 kg
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<b>Mounting</b>	DIN-Rail Mounting, Optional Wall Mounting Kits
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## Environmental Limits

<b>Operating Temperature</b>	Standard: -10°C ~ 60°C (14°F ~ 140°F) Extended: -40°C ~ 75°C (-40°F ~ 167°F)
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<b>Storage Temperature</b>	-40°C ~ 85°C (-40°F ~ 185°F)
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<b>Ambient Relative Humidity</b>	5 to 95%, (Non-Condensing)
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## Regulatory Approvals

<b>EMI</b>	CE EN 55032 Class A
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<b>EMS</b>	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)
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<b>Free Fall</b>	IEC60068-2-32
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<b>Shock</b>	IEC60068-2-27
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<b>Vibration</b>	IEC60068-2-6
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<b>Green</b>	RoHS Compliant
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<b>Certifications</b>	UL 60950-1/62368 (Pending) EN 50121-4
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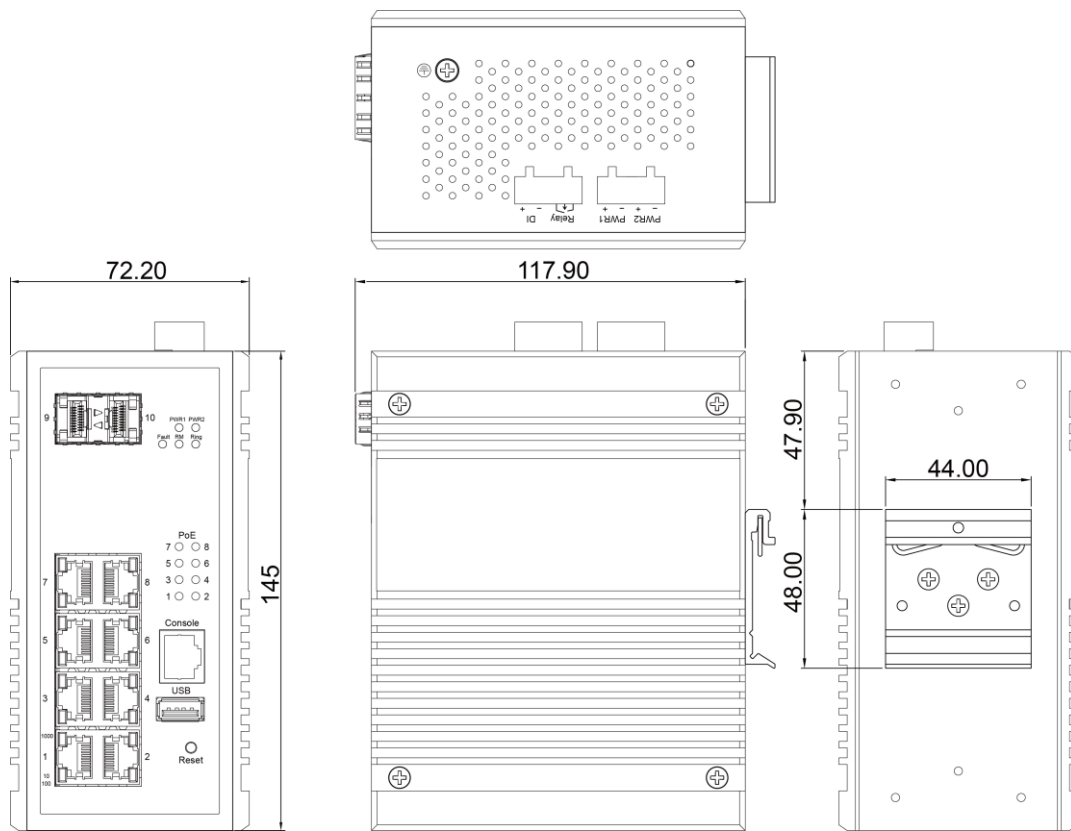
<b>MTBF</b>	>100,000 hours
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<b>Warranty</b>	5 Years
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Features with star(\*) implies those are under development.

In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

## Dimensions (unit = mm)



## Ordering Information

<b>CP-0802G</b>	8+2 Port Industrial Managed PoE+ Gigabit L3 Switch - 8x 10/100/1000T(x) with 30W PSE + 2x 1000F(x) SFP Slot - Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F)
<b>CP-0802G-T</b>	8+2 Port Industrial Managed PoE+ Gigabit L3 Switch - 8x 10/100/1000T(x) with 30W PSE + 2x 1000F(x) SFP Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

## Optional Accessories

<b>NDR-240-48</b>	240W Industrial DIN-Rail Power Supply, 48VDC (metal case)
<b>NDR-480-48</b>	480W Industrial DIN-Rail Power Supply, 48VDC (metal case)