

CP-0804X

8+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink



- 8x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 1/10 Gigabit Ethernet 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 802.3ae 10GBase over Fiber
- 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 96Gbps

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

Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
----------------------------	-----------------------------------

L3 Switching	Static Routing, RIP v1/v2, RIPng, OSPF v2, OSPF v3, VRRP v2
---------------------	---

Interface

RJ45 Port	8x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
------------------	--

Fiber Port	4x 1/10 Gigabit Ethernet 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, 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	48-57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
--------------------------	---

Connection	1x removable 4-contact terminal block
-------------------	---------------------------------------

Power Consumption	0.32A@48VDC without PDs' consumption
--------------------------	--------------------------------------

PoE Power Budget	Max. 240 W for total PD consumption, Max. 30 W per PoE port
-------------------------	--

Protection	Overload Current Protected, Reverse Polarity Protected
-------------------	--

Mechanical Construction

Enclosure	Aluminum
------------------	----------

Protection Class	IP30
-------------------------	------

Dimensions	72x145x118 mm (WxHxD)
-------------------	-----------------------

Weight	0.90 kg
---------------	---------

Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits
-----------------	--

Environmental Limits

Operating Temperature	Standard: -10°C ~ 60°C (14°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)
----------------------------------	----------------------------

Regulatory Approvals

EMI	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
--------------	----------------

Certifications	UL 60950-1/62368 (Pending) EN 50121-4
-----------------------	--

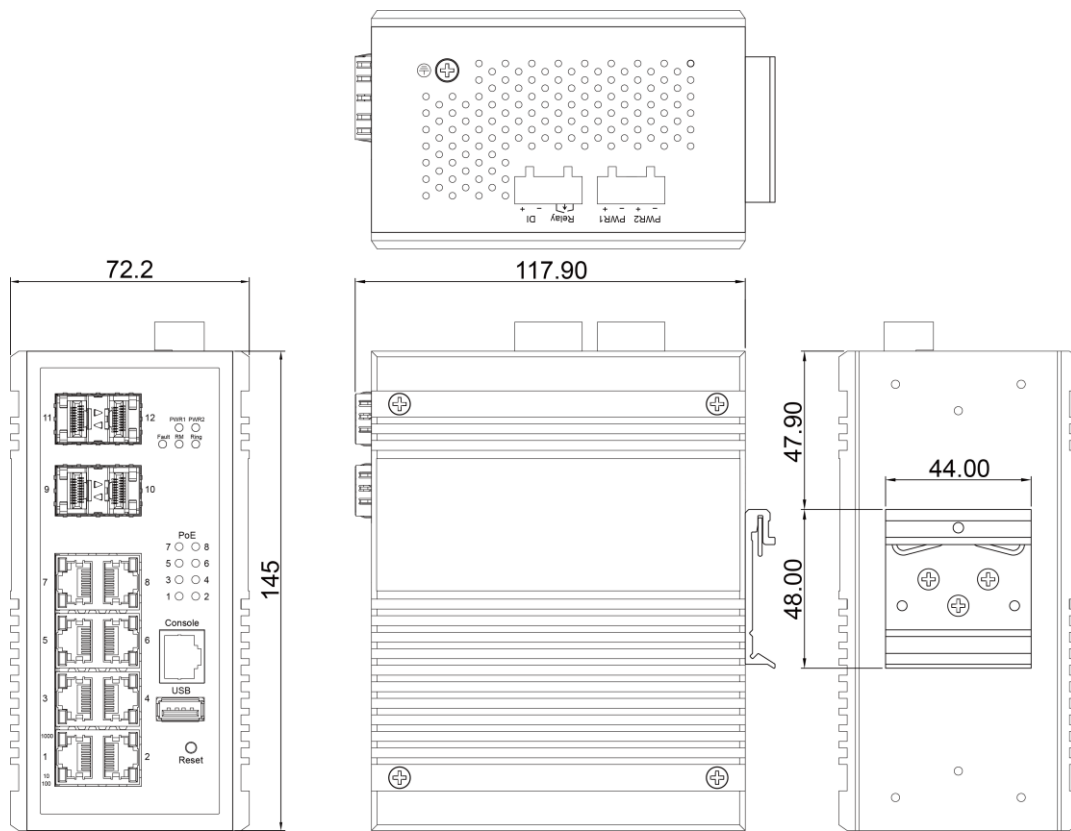
MTBF	>100,000 hours
-------------	----------------

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

CP-0804X	8+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -10°C ~ 60°C (14°F ~ 140°F)
CP-0804X-T	8+4 Port Industrial Managed PoE+ L3 Switch with 10G Uplink - 8x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)

Optional Accessories

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