

iCON-34080L Series

8-port 10/100Base-TX Industrial Unmanaged PoE Switch (-10°C ~ +60°C)



Features

- Complies with IEC61000-6-2 EMC generic standard immunity for industrial environment
- Supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- 1024 MAC addresses, 1 M bits buffer memory
- Alarms for power and port link failure by relay output
- Redundant power inputs with terminal block and DC jack
- 10°C to +60°C (14°F to 140°F) operating temperature range
- Supports DIN-rail, panel or rack mounting installation

Introduction

The iCON-34080L series, the cost-effective Unmanaged PoE Ethernet switch, is designed to operate in the economical applications at the edge of the network. Whether on the factory floor or the street corner, this series delivers flawless communications when you need it most. It is the switch with the flexibility of eight Ethernet ports, 4 of which are PoE, that may be configured in various combinations of copper and fiber optic interfaces. Flexibility is the main feature of the iCON-34080L series, it may be DIN-rail, panel, or rack mounted, and comes with terminal block and power jack power inputs to match the applications that require a tough, environmentally hardened Ethernet switch. Port 1 - port 4 on the iCON-34080L series supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE) and can detect an IEEE802.3af compliant Powered Device (PD). Using external 48VDC power inputs through terminal block or power jack, data and power can be transmitted to a Powered Device (PD) over the same twisted-pair Ethernet cable through port 1 - port 4 on the unit.

IEEE802.3af (PoE) function supported

The iCON-34080L series is the perfect solution for environments where no available cabling for power is present; devices are limited to only Ethernet media. The IEEE802.3af (PoE) Power Sourcing Equipment (PSE) can detect any

IEEE802.3af PoE compliant Powered Device (PD) units and Ethernet-enabled devices. These PD units can be installed up to the distance of 328 feet (100m) away from the iCON-34080L series Ethernet switch. Examples of PD and Ethernet-enabled devices are IP-Phones, IP cameras and Wireless Access Points (APs). Using PoE solution, users can benefit from cabling/wiring constraints and reduce installation cost of cabling.

Operating temperature range supported (-10°C to +60°C)

The iCON-34080L series applies high quality components with advantages of wide operating temperature range and longer MTBF. The housing design helps to dissipate heat efficiently, allowing system to operate under extreme temperature conditions.

Redundant power input

The iCON-34080L series is equipped with two redundant power inputs which guarantee non-stop operation. The backup power input will take over immediately when the primary DC power input fails.

Specifications

Technology	
Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3x, IEEE802.3af
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	1M bits
Processing Type	Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	1024 MAC addresses

Power	
Input	Input voltage: 48VDC (terminal block; DC jack)
Power Consumption	72W max. 1.5A @ 48VDC
Power Supply	Terminal block: 48VDC, 2.5A DC jack: 48VDC, 2.5A
References	
Overload Protection	Present
Reverse Polarity Protection	Present
Mechanical	
Casing	Aluminum case IP30
Dimensions	62 mm (W) x 110 mm (D) x 135 mm (H) 2.44" (W) x 4.33" (D) x 5.31" (H)
Weight	1 kg (2.2 lb)
Installation	DIN-rail (top hat type 35mm), panel, rack mounting

Interface	
Ethernet Port	10/100Base-TX: 8, 7 or 6 ports 100Base-FX: 0, 1 or 2 ports
LED Indicators	Per unit: power status (power 1, power 2, power 3) Per port: 10/100TX, 100FX: link/activity
Alarm Contact	One relay output with current 0.1A @ 24VDC
Environment	
Operating Temperature	-10 °C to +60 °C (14 °F to 140 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Ambient Relative Humidity	5% to 95% (non-condensing)
Regulatory Approvals	
ISO	Manufactured in an ISO9001 facility
Safety	UL 508, EN60950-1, IEC60950-1
EMI	FCC part 15, class A EN61000-6-3 *EN55022 *EN61000-3-2 *EN61000-3-3
EMS	EN61000-6-2 *EN61000-4-2 (ESD standards) Contact: +/- 4 KV; criteria B Air: +/- 8 KV; criteria B *EN61000-4-3 (radiated RFI standards) 10 V/m, 80 to 1000 MHz; 80% AM criteria A *EN61000-4-4 (burst standards) Signal ports: +/- 4 KV; criteria B D.C. power ports: + / - 4 KV; criteria B *EN61000-4-5 (surge standards) Signal ports: +/- 1 KV; line-to-line; criteria B D.C. power ports: +/- 0.5 KV; line-to-earth; criteria B *EN61000-4-6 (induced RFI standards) Signal ports: 10 Vrms @ 0.15-80 MHz; 80% AM criteria A D.C. power ports: 10 Vrms @ 0.15 - 80 MHz; 80% AM criteria A *EN61000-4-8 (magnetic field standards) 30 A/m @ 50, 60 Hz; criteria A

Environmental Test Compliance	IEC60068-2-6 Fc (vibration resistance) *5 g @ 10-150 KHz, amplitude 0.35 mm (operation/storage/transport) IEC60068-2-27 Ea (shock) *25 g @ 11 ms (half-sine shock pulse; operation) *50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC60068-2-32 Ed (free fall) *1 M (3.281 ft.)
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Ordering Information

iCON-34080L-00B	8-port 10/100Base-TX (-10 °C ~ +60 °C) industrial unmanaged PoE switch
iCON-34062L-10B	6-port 10/100Base-TX + 2-port 100Base-FX multi-mode (SC) (-10 °C ~ +60 °C) industrial unmanaged PoE switch
iCON-34062L-A0B	6-port 10/100Base-TX + 2-port 100Base-FX single-mode (SC) -20 Km (-10 °C ~ +60 °C) industrial unmanaged PoE switch
iCON-34062L-P0B	6-port 10/100Base-TX + 2-port 100Base-FX single-mode (SC) WDM - TX:1310 nm/ RX:1550 nm -20 Km (-10 °C ~ +60 °C) industrial unmanaged PoE switch
iCON-34062L-Q0B	6-port 10/100Base-TX + 2-port 100Base-FX single-mode (SC) WDM - TX:1550 nm/ RX:1310 nm -20 Km (-10 °C ~ +60 °C) industrial unmanaged PoE switch
8134080L0000E	Rack mount kit for iCON-34080L
81323140000E	Panel mount kit for iCON-32000 series
DR-120-48	120 W/2.5 A DIN-rail 48VDC industrial power supply, 110 ~ 230VAC

* More 100FX fiber options also available upon request.

Dimensions

