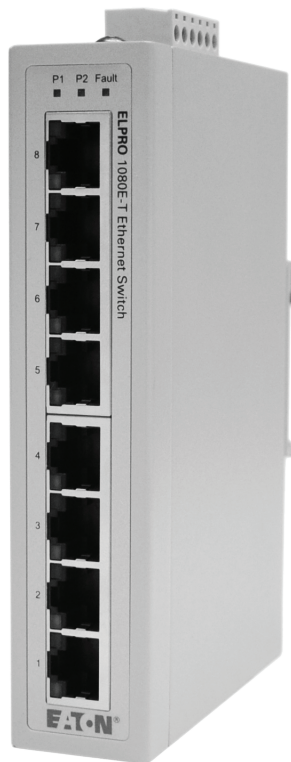


# 1080E-T 8-Port Ethernet switch

**Robust Ethernet switch for extended temperature use in industrial applications**



## Description

The 1080E-T 8-Port Ethernet Switch is designed to meet the demands of industrial environments, yet is easy to use and simple to install with DIN rail or wall mount options.

The 1080E-T supports Ethernet switching to IEEE 802.3 10Base-T and 802.3u 100Base-TX specifications with full-duplex performance and flow control to ensure maximum performance for unmanaged 10/100Base-T switch deployments.

The switch features a wide DC-power supply input range that allows operation with industry-standard 24 Vdc and provides redundant power supply inputs for mission-critical applications.

Designed for demanding industrial applications, the 1080E-T features an extended temperature rating of  $-40$  to  $+167^{\circ}\text{F}$  ( $-40$  to  $+75^{\circ}\text{C}$ ), fanless cooling and an IP30-rated metal enclosure to ensure performance in the toughest of environments.

An ideal choice for harsh and hazardous locations, the 1080E-T is certified for use in Class I Division 2 zones and meets industrial levels of surge and noise immunity standards typically required by mining, oil and gas, chemical processing and other process automation applications.

## Features

- IEEE 802.3 10/100Base-T, 802.3u 100Base-TX
- Half-duplex and full-duplex with flow control
- 10/100 Mbps auto negotiation
- RJ-45 connectors with auto MDI/MDI-X functionality
- Store-and-forward switching architecture
- Relay alarm contact for system events
- UL Class I Division 2 for Group A, B, C and D hazardous locations
- Support for 2,000 Vdc power-line surge protection
- Support for 4,000 Vdc Ethernet electrostatic discharge (ESD) protection
- Support for redundant 9–56 Vdc power input
- Flexible mounting options: DIN rail and wall mounting kit (optional)
- Operating temperature range of  $-40$  to  $+167^{\circ}\text{F}$  ( $-40$  to  $+75^{\circ}\text{C}$ )

## Applications

- Remote wellhead monitoring
- Mining operations infrastructure
- Water treatment facilities
- Tank farm monitoring
- Networking wind turbines and solar collectors

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## Specifications

SPECIFICATION	DESCRIPTION
<b>Ethernet Standards/Transfer Rate</b>	
Standards	10Base-T Ethernet ① 100Base-TX fast Ethernet ② Flow control and back pressure ③
Transfer rate	10 Mbps ① 100 Mbps with auto-negotiation ②
Memory/packet buffer	448 kbits
<b>Fault Alarm</b>	
Alarm for system events	1 relay output, 1A max @ 24 Vdc or 24 Vac
<b>Ethernet Port</b>	
Connectors	RJ-45
Network cabling	10Base-T: 2-pair UTP/STP Cat 3, 4, 5, 6 cable, EIA/TIA-568 100 ohm (328'/100m) 100Base-TX: 2-pair UTP/STP Cat 5, 6 cable, EIA/TIA-568 100 ohm (328'/100m)
<b>Protocols and Configuration</b>	
Protocols supported	Multiple Access Protocol, carrier sense multiple access with collision detection (CSMA/CD)
User configuration	N/A
<b>LED Indication and Diagnostics</b>	
LED indication	Power OK, fault condition exists
Port LED indication	Link active, full duplex/collision
<b>Compliance</b>	
EMC	FCC Part 15 – Class A; CE; EN61000-4-2 (ESD); EN 61000-4-3 (RS); EN 61000-4-4 (EFT); EN 61000-4-5 (Surge); EN 61000-4-6 (CS); EN 61000-4-8; EN 61000-4-11; EN 61000-4-12; EN 61000-6-2; EN 61000-6-4
Hazardous area	UL/cUL Class I Division 2 Maximum ambient temperature 140°F (60°C)
Safety	CE/EN 60950-1
UL	UL listed

SPECIFICATION	DESCRIPTION
<b>Power Supply</b>	
Nominal supply	9–56 Vdc, under/over voltage protection Allows polarity connection, removable terminal block
Average current draw	400 mA
<b>General</b>	
Size	1.18" x 3.74" x 5.51" (30 mm x 95 mm x 140 mm)
Housing	Painted metal case, IP30
Mounting	DIN rail or wall mount (optional)
Terminal blocks	Removable, max conductor 12 AWG 0.1 in. <sup>2</sup> (2.5 mm <sup>2</sup> )
Temperature rating	–40 to +167°F (–40 to +75°C)
Humidity rating	5% to 95% RH noncondensing
Weight	0.94 lb (0.43 kg)

**Note:** Specifications are subject to change.

① IEEE 802.3

② IEEE 802.3u

③ IEEE 802.3x

## Ordering

PRODUCT CODE	DESCRIPTION
1080E-T	8-port industrial Ethernet switch

**Note:** Available RF power and frequency may vary depending on country of application.

## Accessories

PRODUCT CODE	DESCRIPTION	DATA SHEET
<b>Power Supplies</b>		
PSG60E	DIN rail power supply, 85–264 Vac, 24 Vdc/2.5A	TD032034EN

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