

1050E-T 5-Port Basic Ethernet Switch

Robust Ethernet switch for extended temperature use in industrial applications



Description

The 1050E-T five-port Basic Industrial 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 1050E-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 switch deployments.

Designed for the demands of industrial applications, the 1050E-T features an extended temperature rating of -40°F to $+167^{\circ}\text{F}$ (-40°C to $+75^{\circ}\text{C}$), fanless cooling, and IP30-rated metal enclosure to ensure performance in the toughest of environments. Additionally, the 1050E-T is certified for use in Class I Division 2 hazardous environments and meets industrial levels of surge and noise immunity standards typically required in mining, oil and gas, chemical processing, and other applications within process automation.

Features

- IEEE 802.3 10Base-T, 802.3u 100Base-TX
- Flow control on full duplex
- 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
- Supports surge protection 3,000 Vdc for power line
- Supports 6,000 Vdc Ethernet ESD protection
- Supports redundant +12 to +48 Vdc power input
- Provides flexible mounting: DIN rail, wall mounting (optional)
- Supports operating temperatures from -40°F to $+167^{\circ}\text{F}$ (-40°C 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
Ethernet Standards/Transfer Rate	
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	384 Kbits/1 Mbits
Fault Alarm	
Alarm for system events	1 relay output, 1A max @ 24 Vdc or 24 Vac
Ethernet Port	
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)
Protocols and Configuration	
Protocols supported	Multiple Access Protocol, carrier sense multiple access with collision detection (CSMA/CD)
User configuration	N/A
LED Indication and Diagnostics	
LED indication	Power OK, fault condition exists
Port LED indication	Link active, full duplex/collision
Network management	N/A
Compliance	
EMC	FCC Part 15 – Class A; CE; EN61000-4-2 (ESD); EN61000-4-3 (RS); EN61000-4-4 (EFT); EN61000-4-5 (Surge); EN61000-4-6 (CS); EN61000-4-8; EN61000-4-11; EN61000-4-12; EN61000-6-2; EN61000-6-4
Hazardous area	UL/cUL Class I Division 2 Maximum ambient temperature 140°F (+60°C)
Safety	CE/EN60950-1
UL	UL listed

SPECIFICATION	DESCRIPTION
Power Supply	
Nominal supply	12 to 48 Vdc, under/over voltage protection and reverse polarity
Average current draw	450 mA
General	
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. ² (2.5 mm ²)
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
1050E-T	5-port basic Ethernet switch

Accessories

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

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