

Industrial Ethernet Switch - FL SWITCH 1001-4POE-GT - 1102077

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PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four 10/100/1000 Mbps PoE+ ports, one standard 10/100/1000 Mbps RJ45 port, a total PoE system budget of 120 W, and jumbo frames up to 9216 bytes.

Your advantages

- ✓ Transmission speed of 10/100/1000 Mbps on all RJ45 ports
- ✓ Additional isolation for greater safety in SELV and PELV installations
- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ Automatic detection of IEEE 802.3at or 802.3af powered devices
- ✓ PROFINET Conformance Class A for real-time data exchange
- ✓ Local diagnostic indicators with LEDs
- ✓ QoS-prioritized (Quality of Service) messages
- ✓ PROFINET PTCP filter for reliable communication on PROFINET networks
- ✓ Enhanced traffic prioritization for automation protocols
- ✓ Energy-efficient Ethernet in accord. with IEEE 802.3az



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	620.000 g
Country of origin	Taiwan

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	27 mm
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Technical data

Dimensions

Height	130 mm
Depth	120 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	57 kPa ... 108 kPa up to 2000 m above mean sea level (up to 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa up to 2000 m above mean sea level (up to 4850 m above mean sea level)

Interfaces

Interface	Ethernet
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet RJ45
Transmission speed	10/100/1000 Mbps
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
Interface	Ethernet (PoE)
No. of ports	5 (RJ45 ports)
Connection method	RJ45 jack
Transmission physics	Ethernet RJ45
Transmission speed	10/100/1000 Mbps
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE

Function

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9216 bytes
Additional functions	Autonegotiation
MAC address table	4k
PROFINET conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: U _s (voltage supply), Link/Activity and PoE per Ethernet port

Network expansion parameters

Maximum conductor length (twisted pair)	100 m
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Supply voltage

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Technical data

Supply voltage

Supply voltage	24 V DC
	48 V DC
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Supply voltage range	19 V DC ... 57 V DC
Typical current consumption	170 mA
Max. current consumption	7.95 A (Maximum, nominal load)

General

Mounting type	DIN rail
Type AX	Stand-alone
Net weight	457 g
Note	Mode A PoE
MTTF	52.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

Standards and Regulations

Type of test	Free fall in accordance with EN 61131-2
Vibration (storage/transport)	5g, 150 Hz, in acc. with IEC 60068-2-6
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Shock (operation)	30g (EN 60068-2-27)
Conformance	CE-compliant
UL, USA / Canada	UL 61010-1, UL 61010-2-201

Classifications

eCl@ss

eCl@ss 10.0.1	19170402
eCl@ss 11.0	19170402
eCl@ss 9.0	19170106

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Classifications

ETIM

ETIM 7.0	EC000734
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Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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Accessories

Accessories

Data cable preassembled

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

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Accessories

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

Mounting rail adapter

DIN rail adapter - FL DIN RA - 2891053



The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.

Patch cable

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Accessories

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

Power over Ethernet devices

Ethernet module - FL PD 1001 T GT - 2891042



Factoryline Power over Ethernet splitter (PD) for separating power and data according to IEEE 802.3af and at, no configuration required, can be used with 10, 100, 1000 Mbps networks, 24 V DC output voltage

Power supply

Power supply unit - QUINT4-PS/1AC/48DC/5 - 2904610



Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 5 A

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Accessories

Power supply unit - QUINT4-PS/1AC/48DC/10 - 2904611



Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 10 A

Power supply unit - TRIO-PS-2G/1AC/48DC/5 - 2903159



Primary-switched TRIO power supply for DIN rail mounting, input: 1-phase, output: 48 V DC / 5 A, dynamic boost, tool-free fast connection technology for solid and stranded conductors with ferrule

Power supply unit - TRIO-PS-2G/1AC/48DC/10 - 2903160



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: single phase, output: 48 V DC/10 A

Power supply unit - UNO-PS/1AC/24DC/150W - 2904376



Primary-switched UNO power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/150 W

Power supply unit - UNO-PS/1AC/24DC/240W - 2904372



Protective cap

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Accessories

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 2881007



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.