FL SWITCH 4000T-4POE-SFP - Industrial Ethernet Switch

1026924

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Managed PoE Switch 4000 series, 1 SFP port 100/1000 Mbps, 4 RJ45 PoE ports 10/100 Mbps, degree of protection: IP30, Ambient temperature (operation): -40 °C ... 75 °C, Supply voltage range: 52 V DC ... 57 V DC

Product description

FL SWITCH 4000 managed industrial PoE Ethernet switches combine Gigabit interfaces with extensive network performance for the most demanding applications. Extensive user and device access control security features with complete IEEE redundancy and 15 ms recovery time extended ring redundancy optimize network uptime. POE control is optimized with POE diagnostics, watchdog, and scheduling, functions. A comprehensive mix of 10/100 Mbps and Gigabit fiber optic connections combine performance with installed cost savings.

Your advantages

- Four 10/100 Mbps RJ45 ports for device connections and one SFP-based fiber optic LC interfaces for network trunk lines.
- -40 °C to 75 °C ambient temperature
- Redundant power supply
- 120 W Power Budget
- VLANs
- DHCP client
- MSTP
- RSTP
- Web-based management, SNMP
- Secure web-based and SNMP-based management
- Extensive web diagnostics with configurable LED and remote alarm contacts
- Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times

ELEKTROGERÄTE RÜCKNAHME

Commercial data

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Item number	1026924
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN125
GTIN	4055626519968
Weight per piece (including packing)	1,949.4 g
Weight per piece (excluding packing)	1,949.4 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	75 mm
Height	170 mm
Depth	152 mm

Notes

Notes on operation	Designed to function with all 48 V DC QUINT and TRIO power supplies.
Notes on operation	Mode A or Mode B PoE

Note on application

Note on application	Only for industrial use

Material specifications

Color (Housing)	white aluminium (RAL 9006)
Housing material	Aluminum

Mounting

Mounting type	DIN rail mounting

Interfaces

Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps (full duplex)
Transmission physics	Ethernet RJ45
Transmission length	100 m (per segment)
Signal LEDs	LNK/ACT, POE

Fiber optic interface

Number of interfaces	1
Connection method	SFP
Transmission speed	100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	1 (SFP port)

Ethernet (PoE)

Number of interfaces	4
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps

Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	4 (RJ45 PoE ports)
Output power (Total)	max. 240 W
Output power (per port)	max. 60 W

Product properties

Product type	Switch
Product family	Managed PoE Switch 4000
Type	Block design
MTTF	21.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

IP parameterization	DHCP client
	BootP
Status and diagnostic indicators	LEDs: U_{S1}, U_{S2} (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts, Modbus/TCP, PoE according to IEEE 802.3at/af.
Management functions	Web-based management (HTTP/HTTPS)
	SNMPv1/v2/v3
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
Filter functions	Quality of Service (8 and 64 priority classes)
	Port prioritization
	VLAN (up to 64 VLANs)
	IGMP Snooping (256 groups)
	IGMP Query
Redundancy functions	ERR (Extended ring redundancy (15 ms))
	RSTP (Rapid Spanning Tree Protocol)
	MSTP (Multiple Spanning Tree Protocol)
Time synchronization	SNTP (Simple Network Time Protocol)
Additional functions	Transmission of MMS and GOOSE (IEC 61850-8-1)

Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	PoE PoE detection Orange LED
	Alarm Power failure at US1 or US2/Link failure

Maximum power dissipation for nominal condition	143 W (at 55V DC)
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	55 V DC (redundant)
Supply voltage range	52 V DC ... 57 V DC (> 52 V DC for PoE+ or 60 W output recommended)
Inrush current	43.6 A (52 V DC for 1830 µs)
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	3.9 A (Maximum, nominal load)
Typical current consumption	142 mA (U_S = 55 V DC)

Connection data

Power supply

Connection method	Screw connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °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 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)

Standards and regulations

Standards/specifications	EN 50121 for railway applications

Approvals

Conformity/Approvals

Conformance	CE-compliant

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A

	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55022 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 61000-6-4

Signaling

Status display	LEDs: U_{S1}, U_{S2} (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port

Classifications

ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

ETIM

ETIM 10.0	EC000734

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	bf99a97b-de0c-4787-affc-82812c22c6c2

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