

# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



1026765

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Unmanaged PoE Switch 1000 series, 2 SFP ports 100/1000 Mbps, 2 RJ45 PoE ports 10/100/1000 Mbps, degree of protection: IP30, Ambient temperature (operation): -40 °C ... 75 °C, Supply voltage range: 52 V DC ... 57 V DC, Extended temperature range

## Your advantages

- Redundant power supply
- Wide temperature range -40 °C ... +75 °C
- Autocrossing
- POE status LED per port
- Auto negotiation
- Automatic detection of IEEE 802.3at or 802.3af powered devices

## Commercial data

Item number	1026765
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN18
Product key	DNN115
GTIN	4055626519463
Weight per piece (including packing)	569.3 g
Weight per piece (excluding packing)	569.3 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	42.8 mm
Height	100 mm
Depth	101 mm

### Notes

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

### Note on application

Note on application	Only for industrial use
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### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Fiber optic interface

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)
No. of channels	2 (SFP ports)

#### Ethernet (PoE)

Number of interfaces	2
Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	2 (RJ45 PoE ports)

### Product properties

Product type	Switch
Product family	Unmanaged PoE Switch 1000
Type	Stand-alone
MTTF	45.9 Years (MIL-HDBK-217F standard, temperature 25°C,

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	operating cycle 100%)
Special properties	Extended temperature range

## Switch functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
Signal contact control voltage	48 V DC
Signal contact control current	0.5 A
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
Additional functions	Autonegotiation

## Security functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
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## Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	PoE PoE detection Orange LED
	LNK/ACT Link status/data transmission Green/orange LED
	Alarm Power failure at US1 or US2/Link failure
Maximum power dissipation for nominal condition	61.6 W (at 55V DC)

## Supply

Supply voltage (DC)	55 V DC (redundant)
Supply voltage range	52 V DC ... 57 V DC (>52 V DC for PoE+ recommended)
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Inrush current	25.7 A (52 V DC for 1950 µs)
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	1.2 A (Maximum, nominal load)
Typical current consumption	80 mA (at U <sub>S</sub> = 55 V DC)

## Function

Signal contact control voltage	48 V DC
Signal contact control current	0.5 A

## Connection data

### Power supply

Connection method	Screw connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

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## 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
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## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## 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 61000-6-2:2019

### Noise emission

Standards/regulations	EN_61000-6-4:2019
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## System properties

### Functionality

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
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## Signaling

Status display	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### ETIM

ETIM 10.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 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	b36ca81c-a973-4097-985f-23c199e73795

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