

# FL HUB 16TX-ZF - Ethernet hub



2832564

<https://www.phoenixcontact.com/us/products/2832564>

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Rail-mountable Ethernet hub with 16 RJ45 ports, supports Ethernet with 10 Mbps as well as 100 Mbps

## Product description

Ethernet hub with 16 RJ45 ports. The hub enables quick and cost-effective Ethernet network extension. It has sixteen twisted pair ports, which you can use to connect additional network segments or termination devices. The FL HUB 16 TX-ZF supports both Ethernet with 10 Mbps and with 100 Mbps. The hub regenerates the received data telegrams and sends them to the remaining ports. For port 5, a port assignment switch is located on the hub. The transmit and receive cables are exchanged at port 5 by actuating the switch, while polarity is maintained.

## Your advantages

- Outcross port
- 10/100 Mbps, can be selected
- High port density

## Commercial data

Item number	2832564
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN13
Product key	DNN141
GTIN	4017918996222
Weight per piece (including packing)	512.8 g
Weight per piece (excluding packing)	280 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Width	90 mm
Height	99 mm
Depth	112 mm

### Material specifications

Color	green
Housing material	Plastic

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m
Signal LEDs	Data receive, link status
No. of channels	16 (RJ45 ports)

### Product properties

Product type	Switch
Type	Stand-alone
Operating mode	Semi-duplex

#### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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#### Switch functions

Basic functions	Hub/repeater, compliance with IEEE 802.3
Status and diagnostic indicators	LEDs: UL (communications voltage), COL (collision) link and receive LED per port

#### Security functions

Basic functions	Hub/repeater, compliance with IEEE 802.3
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### Electrical properties

Electrical isolation	10BASE-T//100BASE-TX//Supply
Local diagnostics	US Supply voltage Green LED
	COL Telegram collisions LED red
	Link status Green LED
Maximum power dissipation for nominal condition	3.456 W

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Test section	500 V AC 50 Hz 1 min
Transmission medium	Copper

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	18.5 V DC ... 30.5 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	typ. 144 mA (at U <sub>S</sub> = 24 V DC)

## Connection data

Connection method	RJ45, shielded
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO <sub>2</sub> ) 10 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , at 25 °C and 75% humidity and exposure of four days

## Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
Electrical isolation	10BASE-T//100BASE-TX//Supply

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 B
	IEC 61000-4-5 (surge) Class A
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
Noise immunity	EN 55022 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2005

### Noise emission

Standards/regulations	EN 61000-6-4
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## System properties

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## Functionality

Basic functions

Hub/repeater, compliance with IEEE 802.3

## Signaling

Status display

LEDs: UL (communications voltage), COL (collision) link and receive LED per port

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## Environmental product compliance

### EU RoHS

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

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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