

# FL SWITCH 1116N - Industrial Ethernet Switch



1085219

<https://www.phoenixcontact.com/in/products/1085219>

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Narrow Ethernet switch, sixteen RJ45 ports with 10/100/1000 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

## Your advantages

- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- RJ45 ports support a transmission speed of 10/100/1000 Mbps
- QoS-prioritized (Quality of Service) messages
- PROFINET Conformance Class A for real-time data exchange
- Energy-efficient Ethernet in accord. with IEEE 802.3az
- PROFINET PTCP filter for reliable communication on PROFINET networks
- Enhanced traffic prioritization for automation protocols
- Jumbo frame support (frame size up to 9216 bytes/frame)

## Commercial data

Item number	1085219
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN
Product key	DNN116
GTIN	4055626833675
Weight per piece (including packing)	541 g
Weight per piece (excluding packing)	455 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	40 mm
Height	151 mm
Depth	98 mm

### Notes

#### Utilization restriction

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

Housing material	Polycarbonate fiber reinforced
	Aluminum / steel sheet DC01

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet (RJ45)

Number of interfaces	16
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	16 (RJ45 ports)

### Product properties

Product type	Switch
Product family	Unmanaged Switch 1000
MTTF	77.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	833.6 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	616.1 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))

### Switch functions

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

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PROFINET conformance class	Conformance-Class A
MAC address table	8k
Status and diagnostic indicators	LEDs: $U_S$ , link and activity per port
Additional functions	100 BASE-TX/100BASE-FX (IEEE 802.3u) Jumbo frames (Max. 9,216 bytes) Quality of Service (QoS) prioritization (IEEE 802.1p) Energy-efficient Ethernet (IEEE 802.3az) Gigabit Ethernet 1000BASE-T (IEEE 802.3ab) 10Base-T (IEEE 802.3)

Security functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

## Electrical properties

Maximum power dissipation for nominal condition	8.325 W (at 24 V DC)
Transmission medium	Copper

Supply	
Supply voltage (DC)	24 V
Supply voltage range	9 V DC ... 32 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)
Max. current consumption	925 mA (at 9 V DC)
Typical current consumption	95 mA (at 24 V DC)

## Connection data

Connection technology	
Connection name	Power supply
pluggable	yes

Power supply	
Connection method	Push-in spring connection
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
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Stripping length	10 mm

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP30