

2989925

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Ethernet Lean Managed Switch with four 10/100 Mbps RJ45 ports and one 100 Mbps FX-ST single-mode port

Product description

The compact Lean Managed Switches (LM) enable the flexible and cost-effective creation of managed Ethernet networks in automation applications. Thanks to the wide range of connection versions and the extended temperature range of -40°C to +70°C, it optimally meets the requirements of industrial applications. It supports PROFINET conformance class A. And its integrated software enables the redundant creation, diagnostics, and monitoring of networks using IT standard protocols.

Your advantages

- Ambient temperature -40 °C ... 70 °C
- · Configurable alarm contact
- · Web-based management, SNMP
- · Configuration can be stored externally
- · Comprehensive fiber optic versions
- · Compact housing

Commercial data

Item number	2989925
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN121
Catalog page	Page 297 (C-8-2015)
GTIN	4046356342407
Weight per piece (including packing)	311 g
Weight per piece (excluding packing)	230 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	112 mm

Mounting

Mounting type	DIN rail mounting	

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	4 (RJ45 ports)

Ethernet FO

Connection method	ST
Transmission speed	100 Mbps (full duplex)
Transmission physics	Single-mode fiberglass
Transmission length	36000 m (fiberglass with F-G 9/125 0.36 dB/km)
	32000 m (fiberglass with F-G 9/125 0.4 dB/km)
	26000 m (fiberglass with F-G 9/125 0.5 dB/km)
Wavelength	1300 nm
No. of channels	1 (ST single mode)

Serial (RS-232)

Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)

Product properties

Diagnostic functions

Туре	Block design
Product type	Switch
Product family	Lean Managed Switch
Insulation characteristics	
Insulation characteristics Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

1:1-Portmirroring



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Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority
	classes according to IEEE 802.1p, TCP/IP protocol, BootP- compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree
	(RSTP), DHCP server, PTCP filter
PROFINET conformance class	Conformance-Class A
Filter functions	Quality of Service
	VLAN (up to 8 VLANs)
	IGMP Query
	Auto-Query-Port
	Extended Multicast Filtering
Management	Web-based management (HTTP)
	SNMP v1/v2
	Serial interface (V.24)
Redundancy	STP (Spanning Tree Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs portion to the contact (Link/Activity and Speed)
Supported browsers	Internet Explorer 5.5 or higher
Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
ctrical properties	
ctrical properties Local diagnostics	US Supply voltage Green LED
<u> </u>	US Supply voltage Green LED Link status Green LED
<u> </u>	
Local diagnostics	Link status Green LED
<u> </u>	Link status Green LED Telegrams received Yellow LED
Local diagnostics Maximum power dissipation for nominal condition	Link status Green LED Telegrams received Yellow LED 6 W
Local diagnostics Maximum power dissipation for nominal condition	Link status Green LED Telegrams received Yellow LED 6 W Copper
Local diagnostics Maximum power dissipation for nominal condition Transmission medium	Link status Green LED Telegrams received Yellow LED 6 W Copper
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply	Link status Green LED Telegrams received Yellow LED 6 W Copper FO
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC)	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant)
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant) 18.5 V DC 30.5 V DC
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant) 18.5 V DC 30.5 V DC Via COMBICON, max. conductor cross section 2.5 mm²
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant) 18.5 V DC 30.5 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range)
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Typical current consumption	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant) 18.5 V DC 30.5 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range)
Local diagnostics Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage range Power supply connection Residual ripple Typical current consumption	Link status Green LED Telegrams received Yellow LED 6 W Copper FO 24 V DC (redundant) 18.5 V DC 30.5 V DC Via COMBICON, max. conductor cross section 2.5 mm² 3.6 V _{PP} (within the permitted voltage range) 250 mA (at U _S = 24 V DC)



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Conductor cross section AWG	24 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °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)	80 kPa 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	70 kPa 108 kPa (3000 m above sea level)

EMC data

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) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3/-4

System properties

Functionality

Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
System requirements	
Supported browsers	Internet Explorer 5.5 or higher

Signaling

Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per
	Ethernet port (Link/Activity and Speed)



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Classifications

ECLASS

ECLASS-11.0	19170401
ECLASS-12.0	19170401
ECLASS-13.0	19170401

UNSPSC

UNSPSC 21.0	43222612



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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