

1319321

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Gigabit Ethernet extender, network extension via twisted pair cable up to 1 kilometer and bandwidth up to 1 Gbps, Power over Link (PoL) function for the power supply of additional devices via the twisted pair cable

Commercial data

Item number	1319321
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC361
Product key	DNC361
GTIN	4063151604721
Weight per piece (including packing)	195.4 g
Weight per piece (excluding packing)	145 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Notes

Note on application	

Note on application	Only for industrial use
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Product properties

Product type	Ethernet extender
MTTF	294 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	144 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	61 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Insulation characteristics	
Pollution degree	2

System properties

Functionality

Basic functions Gigabit	Ethernet extender in accordance with ITU G.9960
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Electrical properties

Electrical isolation	VCC (US+GND) // Ethernet (PoE) // G.hn (without PoL) // FE
Mains type	Permanent line
Test voltage data interface/power supply	1.5 kV AC (50 Hz, 1 min.)

Supply

Supply	
Supply voltage range	18 V DC 57 V DC
Nominal supply voltage	24 V DC (Without PoL)
	48 V DC (With PoL)
Power consumption	≤ 7.5 W (Without PoL)
	≤ 37.5 W (With PoL)
Protective circuit	Overload protection, protection against polarity reversal; Internal device protection: 2x 5 AF, internal series diode

Connection data

Supply

Connection method	Push-in spring connection
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 1.5 mm ²
Single conductor/terminal point, rigid	0.2 mm² 2.5 mm²



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	≥ 0.5 mm² (PoL cables in accordance with DIN VDE 0100, part 523)
Single-wire/terminal point, flexible	0.2 mm² 2.5 mm²
	≥ 0.5 mm² (PoL cables in accordance with DIN VDE 0100, part 523)
Conductor cross section, flexible [AWG]	24 16
Stripping length	10.00 mm
erfaces Signal	Ethernet
	Ethernet Gigabit Ethernet extender in accordance with ITU G.9960
Signal	Gigabit Ethernet extender in accordance with ITU G.9960
Signal Basic functions	Gigabit Ethernet extender in accordance with ITU G.9960
Signal Basic functions Pata: Ethernet interface, 10/100/1000Base-T(X) in accordance with IE	Gigabit Ethernet extender in accordance with ITU G.9960 EE 802.3
Signal Basic functions Pata: Ethernet interface, 10/100/1000Base-T(X) in accordance with IE Serial transmission speed	Gigabit Ethernet extender in accordance with ITU G.9960 EE 802.3 10/100/1000 Mbps
Signal Basic functions Pata: Ethernet interface, 10/100/1000Base-T(X) in accordance with IE Serial transmission speed Connection method	Gigabit Ethernet extender in accordance with ITU G.9960 EE 802.3 10/100/1000 Mbps RJ45 jack, shielded

< 100 m (shielded twisted pair)

Protocol-transparent for TCP/IP, IPv4, and IPv6

Data: G.hn interface in accordance with ITU G.9960

No. of channels

Transmission length

Protocols supported

Transmission speed	≤ 1000 Mbps (Depending on the quality of the data line)
Connection method	Push-in spring connection
Note on the connection method	Short-circuit-proof
Transmission length	≤ 1000 m (Depending on the quality of the data line)
Single conductor/terminal point, rigid	0.2 mm² 2.5 mm²
Single-wire/terminal point, flexible	0.2 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
Max. AWG conductor cross section, flexible	16
Min. AWG conductor cross section, flexible	24
Stripping length	10 mm
Transmission method	QAM (quadrature amplitude modulation) carrier frequency method
Output power	≤ 74 W (With PoL)

Dimensions

Width	23 mm
Height	101 mm
Depth	115 mm

Material specifications

Color (Housing)	gray (RAL 7042)
Material (Housing)	PA 6.6-FR



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Flammability rating according to UL 94	V0
Mechanical tests	
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 1g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 15g, 11 ms
Environmental and real-life conditions	
Ambient conditions	JD00
Degree of protection	IP20
Ambient temperature (operation)	-40 °C 60 °C (Free standing, without PoE)
	-40 °C 55 °C (Free standing, PoE up to 15 W)
	-40 °C 50 °C (Free standing, PoE up to 30 W)
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Approvals	
CE	
Certificate	CE-compliant
Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A
Identification	13A-37 1.04-1903 G3 Harsh Gloup A
EMC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 55035
Nicha and and a	
Noise emission	5 11.01000 0 1 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Standards/regulations	EN 61000-6-4, Class A, industrial area of application
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
	± 6 kV
Contact discharge	
Discharge in air	± 8 kV
Indirect discharge	± 6 kV
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Floring and College College	
Electromagnetic HF field	00.001 0007 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Frequency range	80 MHz 3 GHz (80% amplitude modulation with 1 kHz)
Field intensity	10 V/m



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Frequency range	3 GHz 6 GHz (80% amplitude modulation with 1 kHz)
Field intensity	3 V/m
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	± 2.2 kV
Signal	± 2.2 kV (Ethernet, G.hn)
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Ctarida d5/regulation5	EN 01000 4 0
Surge current load (surge)	
Input	± 0.5 kV (Symmetrical, unshielded supply line)
	± 1 kV (Asymmetrical, unshielded supply line)
Signal	± 1 kV (Ethernet signal / asymmetrical: shielded Ethernet cable
	± 4 kV (Ethernet signal / asymmetrical: cable to ground, unshielded G.hn cable)
	± 2 kV (Ethernet signal / symmetrical: cable to cable, unshielde G.hn cable)
	± 4 kV (Telecommunication lines, symmetrical, unshielded, with primary protection)
	± 1 kV (Telecommunication lines, symmetrical, unshielded, without primary protection)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Conducted interference Frequency range	0.15 MHz 80 MHz (80% amplitude modulation with 1 kHz)
Comments	Criterion A
Voltage	10 V
Criteria	November of the Control of the Contr
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
ounting	
Mounting type	DIN rail mounting
Assembly note	To allow for air circulation, mount the device freestanding, with clearance of at least one centimeter on all sides to other device
Mounting position	Vertical (horizontal DIN rail)

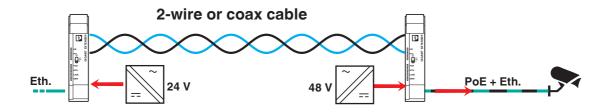


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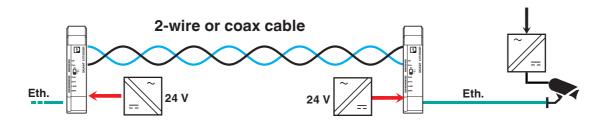
Drawings

Application drawing



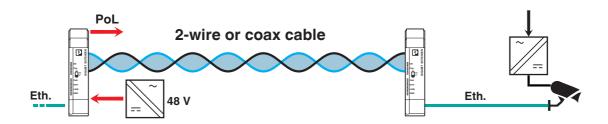
PoE supply of a PoE end device

Application drawing



Separate supply with one power supply unit each

Application drawing



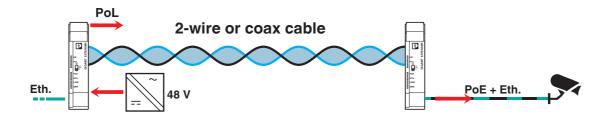
PoL supply of the remote extender



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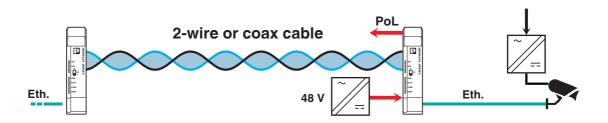
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Application drawing



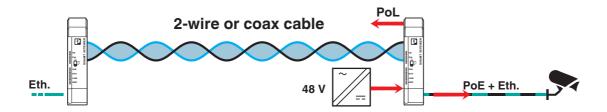
PoL supply of the remote extender and PoE supply of a PoE end device

Application drawing



PoL supply of the local extender

Application drawing



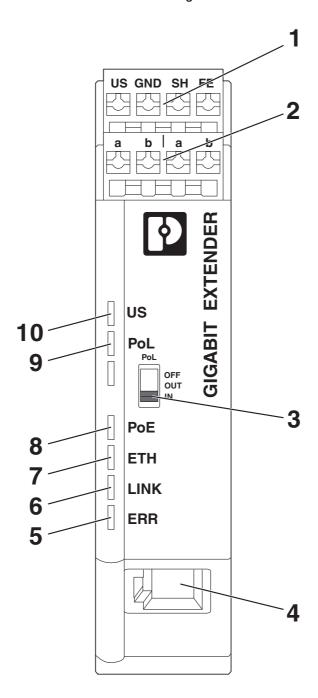
PoL supply of the local extender and PoE supply of a PoE end device



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Schematic diagram



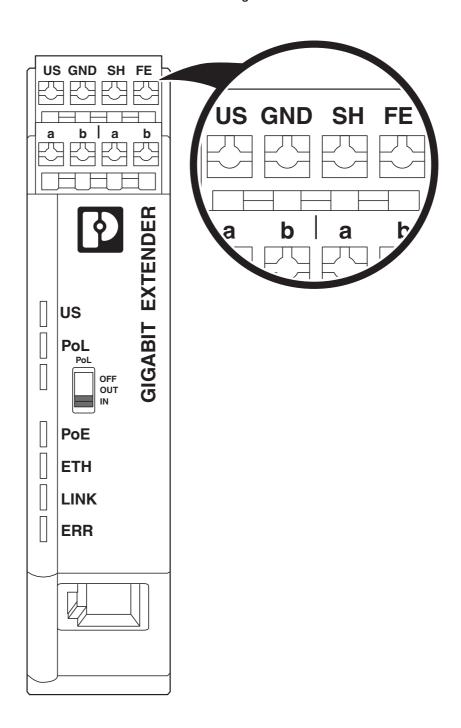
Front view



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Schematic diagram



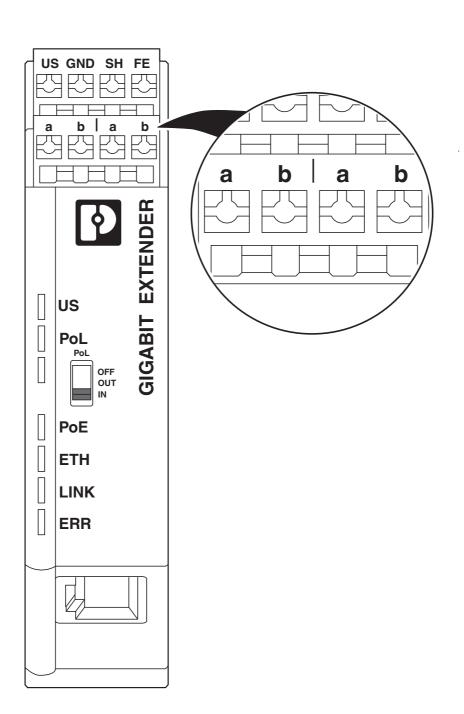
Connecting the supply voltage



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Schematic diagram



Connection of the twisted pair cable



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Classifications

ECLASS				
	ECLASS-13.0	19170407		
ETIM				
	ETIM 9.0	EC000309		
UNSPSC				
	UNSPSC 21 0	43223100		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

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