

1319320

https://www.phoenixcontact.com/us/products/1319320

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

Your advantages

- · Use of existing twisted pair cables or coaxial cables
- · Flexible network configuration
- · Easy startup, plug and play
- Network transparent (no IP configuration required)
- Protocol-transparent transmission of all standard Ethernet protocols

Commercial data

Item number	1319320
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN24
Product key	DNC361
GTIN	4063151604806
Weight per piece (including packing)	201.05 g
Weight per piece (excluding packing)	144 g
Customs tariff number	85176200
Country of origin	DE



1319320

https://www.phoenixcontact.com/us/products/1319320

Technical data

Notes

Note	on	apr	lication
11010	011	upp	moution

Product properties

Product type	Ethernet extender
MTTF	293 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	134 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	55 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Basic functions	Gigabit Ethernet extender in accordance with ITU G.9960
Insulation characteristics	
Pollution degree	2

System properties

Functionality

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

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 voltage range	18 V DC 57 V DC
Nominal supply voltage	24 V DC (Without PoL, without PoE)
	48 V DC (With PoL or with PoE)
Power consumption	≤ 7.5 W (Without PoL, without PoE)
	≤ 37.5 W (Without PoL, with PoE)
	≤ 37.5 W (With PoL, without PoE)
	≤ 82.5 W (With PoL, with PoE)
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 mm ² 2.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²



1319320

https://www.phoenixcontact.com/us/products/1319320

2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Single conductor/terminal point, rigid	0.2 mm² 2.5 mm²
	≥ 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

Interfaces

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

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100/1000 Mbps
Connection method	RJ45 jack, shielded
Note on the connection method	CAT6
	Autonegotiation
	PoE port status: Always active Mode: Auto
No. of channels	1
Transmission length	< 100 m (shielded twisted pair)
Protocols supported	Protocol-transparent for TCP/IP, IPv4, and IPv6
Maximum output power	15 W (at ≤ 55°C)
	30 W (at ≤ 50 °C)

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

Transmission speed	≤ 1000 Mbps (Depending on the quality of the data line)
Connection method	BNC female connector for coaxial cables, 75 $\boldsymbol{\Omega}$
Note on the connection method	Short-circuit-proof
Transmission length	≤ 1000 m (Depending on the quality of the data line)
Transmission method	QAM (quadrature amplitude modulation) carrier frequency method
Output power	≤ 91 W (With PoL)

Dimensions

Dimensional drawing	5
Width	23 mm
Height	101 mm



1319320

Depth

https://www.phoenixcontact.com/us/products/1319320

or (Housing)	gray (RAL 7042)
aterial (Housing)	PA 6.6-FR
lammability rating according to UL 94	V0
anical 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
ronmental and real-life conditions	
abient conditions	
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) rovals	10 % 95 % (non-condensing)
	10 % 95 % (non-condensing) CE-compliant
rovals Certificate	
rovals	
rovals Certificate prosive gas test	CE-compliant
Certificate provide gas test Identification	CE-compliant
Certificate prosive gas test Identification	CE-compliant ISA-S71.04-1985 G3 Harsh Group A
Certificate Provide a section of the compatibility of the companion of the compatibility of	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU
Certificate Provide a state of the state of	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU
Certificate Certificate Prosive gas test Identification C data Electromagnetic compatibility Noise immunity pise emission Standards/regulations	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035
Certificate rrosive gas test Identification C data Electromagnetic compatibility Noise immunity sise emission Standards/regulations ectrostatic discharge	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035
Certificate Certificate Prosive gas test Identification C data Electromagnetic compatibility Noise immunity Dise emission Standards/regulations Standards/regulations Standards/regulations	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035 EN 61000-6-4, Class A, industrial area of application
Certificate Provided a comparison of the compar	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035 EN 61000-6-4, Class A, industrial area of application EN 61000-4-2
Certificate Provided a sector of the companion of the co	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035 EN 61000-6-4, Class A, industrial area of application EN 61000-4-2 ± 6 kV
Certificate Provided a comparison of the compar	CE-compliant ISA-S71.04-1985 G3 Harsh Group A Conformance with EMC Directive 2014/30/EU EN 55035 EN 61000-6-4, Class A, industrial area of application EN 61000-4-2

115 mm



1319320

https://www.phoenixcontact.com/us/products/1319320

Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 3 GHz (80% amplitude modulation with 1 kHz)
Field intensity	10 V/m
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
-ast transients (burst)	
Input	± 2.2 kV
Signal	± 2.2 kV (Ethernet, G.hn)
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
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, unshielder 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	
Frequency range	0.15 MHz 80 MHz (80% amplitude modulation with 1 kHz)
Comments	Criterion A
Voltage	10 V
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
punting	
Mounting type	DIN rail mounting



1319320

https://www.phoenixcontact.com/us/products/1319320

Assembly note	To allow for air circulation, mount the device freestanding, with a clearance of at least one centimeter on all sides to other devices.
Mounting position	Vertical (horizontal DIN rail)

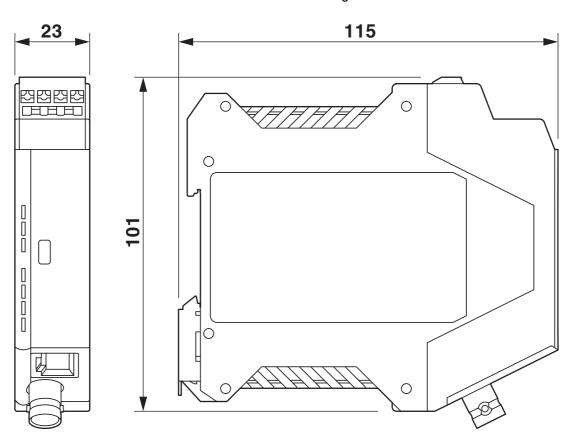


1319320

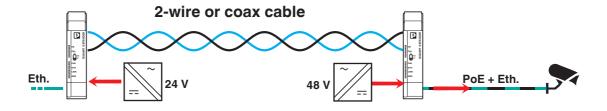
https://www.phoenixcontact.com/us/products/1319320

Drawings

Dimensional drawing



Application drawing



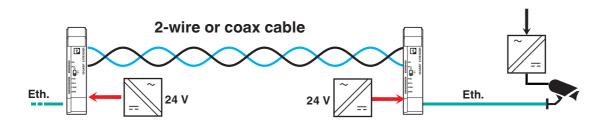
PoE supply of a PoE end device



1319320

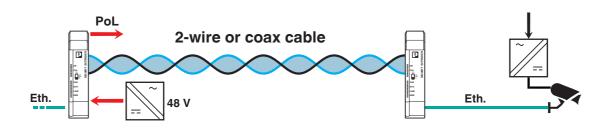
https://www.phoenixcontact.com/us/products/1319320

Application drawing



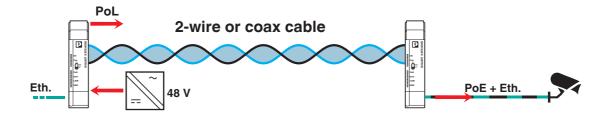
Separate supply with one power supply unit each

Application drawing



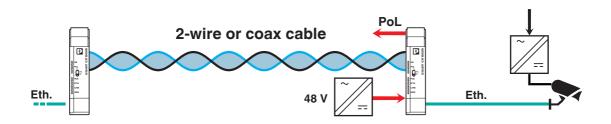
PoL supply of the remote extender

Application drawing



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

Application drawing



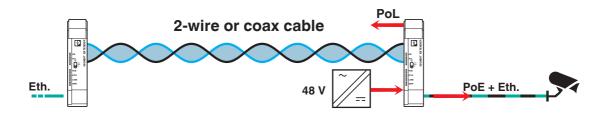
PoL supply of the local extender



1319320

https://www.phoenixcontact.com/us/products/1319320

Application drawing

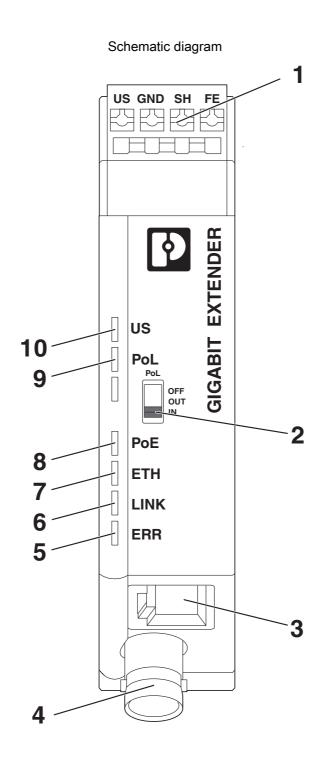


PoL supply of the local extender and PoE supply of a PoE end device



1319320

https://www.phoenixcontact.com/us/products/1319320



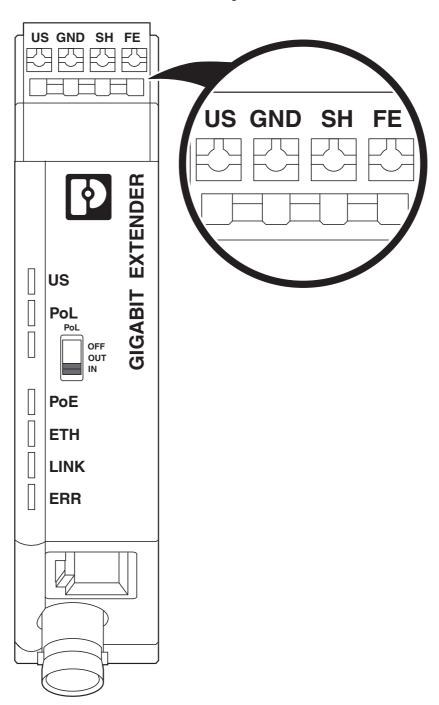
Front view



1319320

https://www.phoenixcontact.com/us/products/1319320

Schematic diagram



Connection terminal blocks



1319320

https://www.phoenixcontact.com/us/products/1319320

Classifications

ECLASS

	ECLASS-13.0	19170407	
	ECLASS-15.0	19170407	
ETIM			
	ETIM 9.0	EC000309	
UNSPSC			
	UNSPSC 21.0	43223100	



1319320

https://www.phoenixcontact.com/us/products/1319320

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%		



1319320

https://www.phoenixcontact.com/us/products/1319320

Accessories

C-UB/E - Surge protection device

2763701

https://www.phoenixcontact.com/us/products/2763701



Attachment plug with surge protection, for coaxial signal interfaces with floating shield. Connection: BNC socket/plug

FL CAT5 PATCH 0,5 - Patch cable

2832263

https://www.phoenixcontact.com/us/products/2832263



Patch cable, CAT5, assembled, 0.5 m



1319320

https://www.phoenixcontact.com/us/products/1319320

FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/us/products/2832276



Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m



1319320

https://www.phoenixcontact.com/us/products/1319320

FL CAT5 PATCH 3,0 - Patch cable

2832292

https://www.phoenixcontact.com/us/products/2832292



Patch cable, CAT5, assembled, 3 m

FL CAT5 PATCH 5,0 - Patch cable

2832580

https://www.phoenixcontact.com/us/products/2832580



Patch cable, CAT5, assembled, 5 m



1319320

https://www.phoenixcontact.com/us/products/1319320

NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

https://www.phoenixcontact.com/us/products/1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, ${\rm CAT6}_{\rm A}$, cable outlet: straight, Ethernet

NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

https://www.phoenixcontact.com/us/products/1408360



Patch cable, ${\rm CAT6_A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m



1319320

https://www.phoenixcontact.com/us/products/1319320

NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

https://www.phoenixcontact.com/us/products/1408365



Patch cable, CAT6 $_{\rm A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

FL CAT5 HEAVY CONF/ - Network cable

2744827

https://www.phoenixcontact.com/us/products/2744827



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line



1319320

https://www.phoenixcontact.com/us/products/1319320

VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/us/products/1656725



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/us/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site





1319320

https://www.phoenixcontact.com/us/products/1319320

FBS 2-5 GY - Plug-in bridge

3038969

https://www.phoenixcontact.com/us/products/3038969



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

ME-SAS - Shield connection clamp

2853899

https://www.phoenixcontact.com/us/products/2853899

Shield connection clamp for terminal points starting from 2.5 mm²





1319320

https://www.phoenixcontact.com/us/products/1319320

ME-SAS MINI - Shield connection clamp

2200456

https://www.phoenixcontact.com/us/products/2200456

Shield connection clamp for terminal points starting from 1.5 mm²



FL DIN RA - DIN rail adapter

2891053

https://www.phoenixcontact.com/us/products/2891053

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.





1319320

https://www.phoenixcontact.com/us/products/1319320

ME-MAX-NEF/QUINT20A - EMC filter

2319919

https://www.phoenixcontact.com/us/products/2319919



Filter for adherence to the EMC category EMC1 in shipbuilding for the QUINT-PS/1AC/24DC/20 power supply

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com