TC ETH EXTENDER S19 - Modem

2702077

https://www.phoenixcontact.com/us/products/2702077

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19" Ethernet communication unit for networking systems and stations via SHDSL technology. Data rates of up to 30 Mbps, distances of up to 20 km on in-house copper cables via line, star, and ring structures. Diagnostics via LEDs or software.

Commercial data

Item number	2702077
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC444
GTIN	4046356945516
Weight per piece (including packing)	10.9 kg
Weight per piece (excluding packing)	10.9 kg
Country of origin	DE

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Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Modem
MTTF	34 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	26 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	16 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Electrical properties

Electrical isolation	VCC // Ethernet // DSL (A) // DSL (B) // FE
Maximum power dissipation for nominal condition	69 W
Mains type	Permanent line
Test voltage data interface/power supply	1.5 kV_{rms} (50 Hz, 1 min.)

Supply

Supply voltage range	100 V AC ... 240 V AC
Nominal supply voltage	230 V AC (50 Hz ... 60 Hz)
Typical current consumption	< 300 mA (220 V AC)

Function

Management	Plug and Play, diagnostics via PSI-CONF software or web-based management (only with managed Ethernet extenders)

Interfaces

Signal	Ethernet

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

Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	RJ45 jack, shielded
No. of channels	4
Transmission length	< 100 m (shielded twisted pair)
Protocols supported	Transparent protocol for IPv4 and IPv6

Data: SHDSL interface according to ITU-T G.991.2.bis

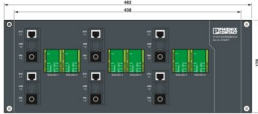|	
Serial transmission speed	4-wire operation: 64 kbps ... 30 Mbps
	2-wire operation: 32 kbps ... 15.3 Mbps
Connection method	Socket M8
No. of channels	12 (2-wire operation)
Transmission length	< 20 km (Depending on data rate and cable cross section)

Data: USB 2.0

Connection method	USB Type B
Transmission length	< 5 m (only for configuration and diagnostics)

Dimensions

Dimensional drawing	
Width	438 mm
Height	178 mm
Depth	330 mm

Material specifications

Material (Housing)	Steel (powder-coated)

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (operation): 15g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	5 °C ... 35 °C (Cabinet temperature)
Ambient temperature (storage/transport)	0 °C ... 50 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2

Drawings

Dimensional drawing
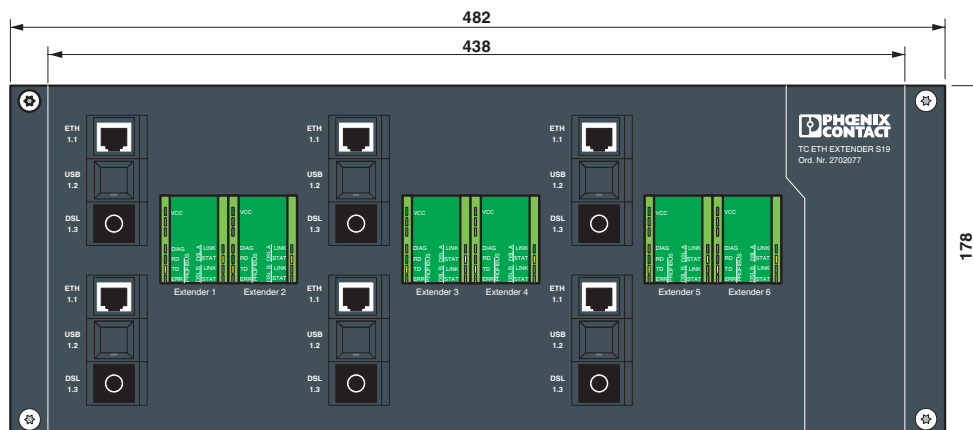
Dimensional drawing

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Functional drawing
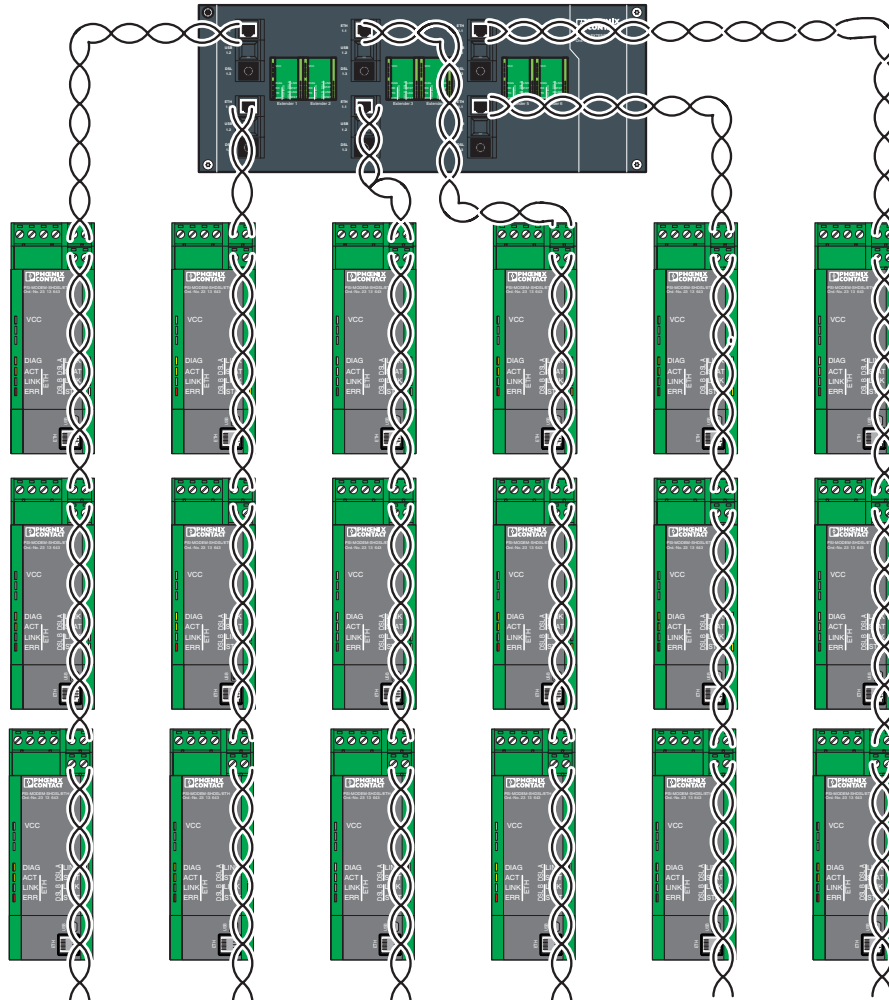
Example application

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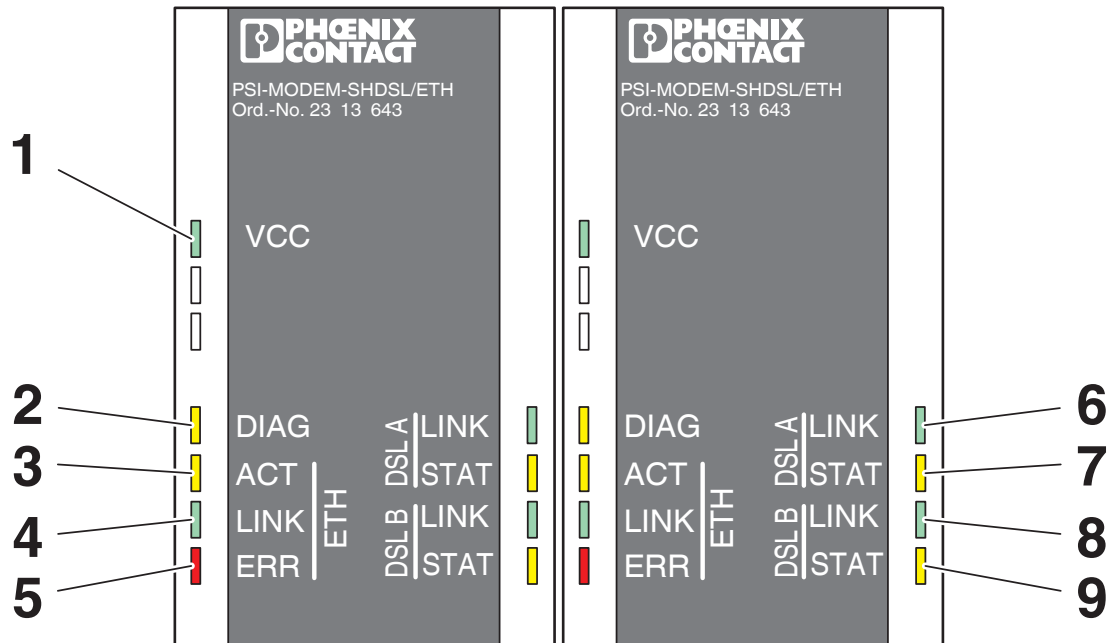
Schematic diagram

LED indicators

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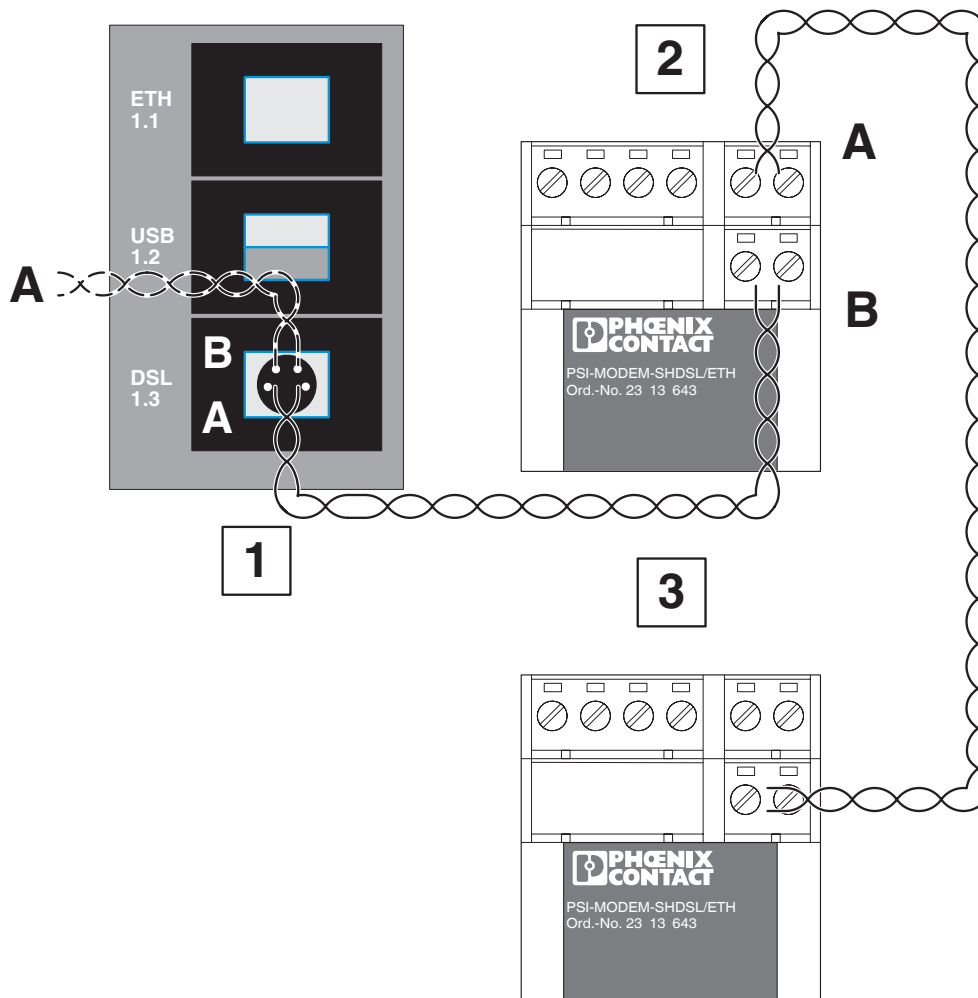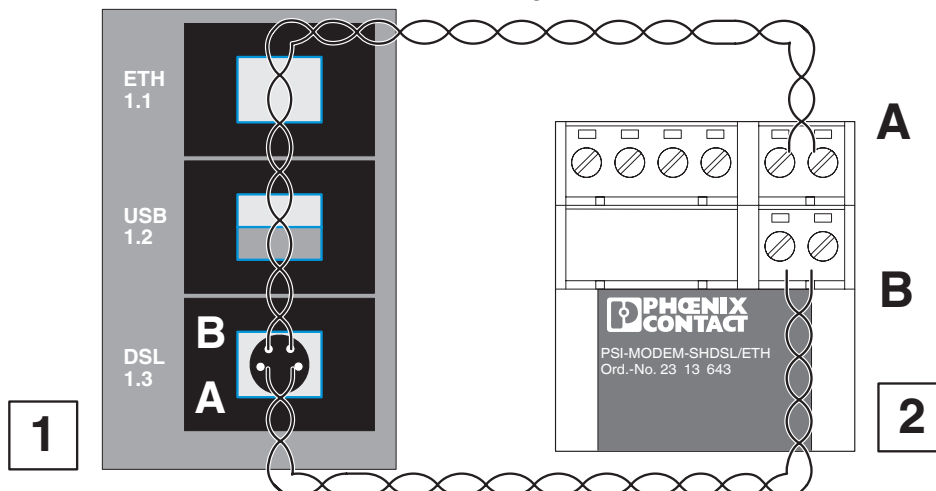
Schematic diagram

Line structure

Schematic diagram

Point-to-point connection (4-wire)

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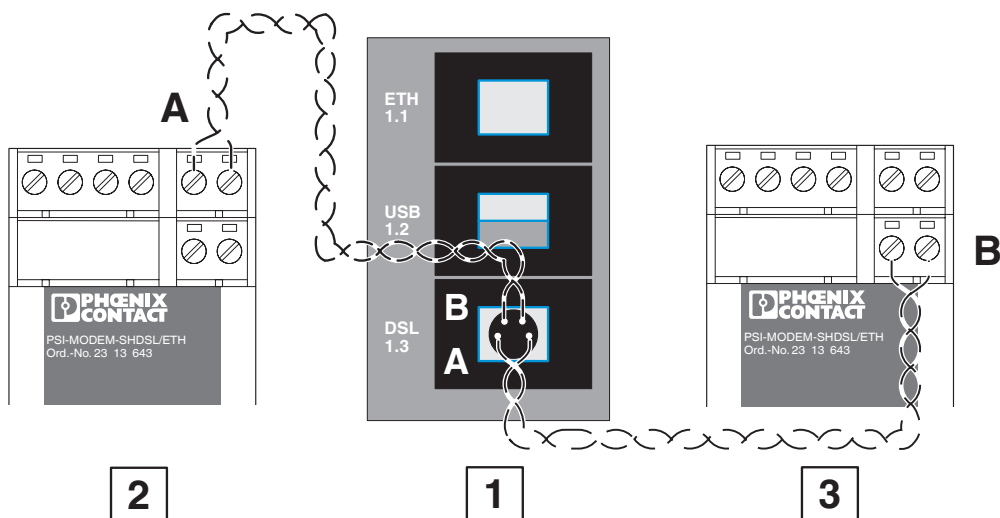https://www.phoenixcontact.com/us/products/2702077
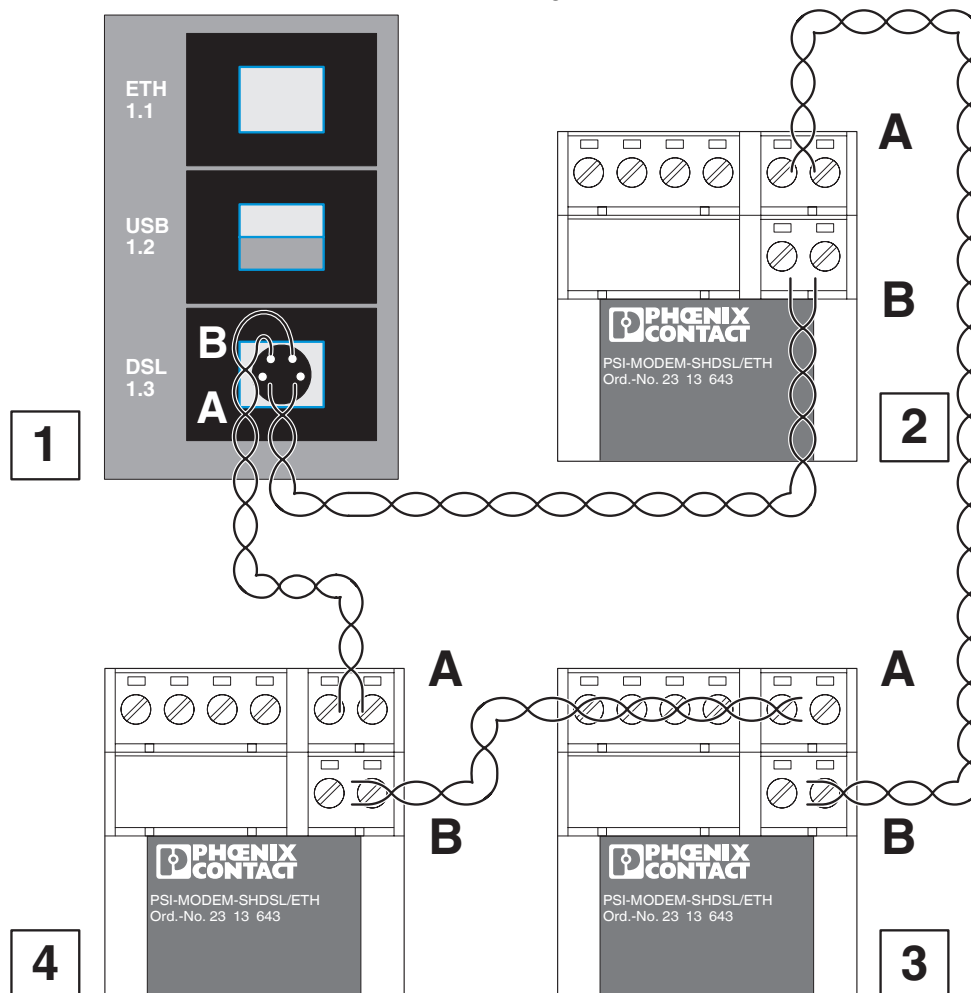
Schematic diagram

Ring structure

Schematic diagram

Star structure

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Classifications

ECLASS

ECLASS-13.0	19170407
ECLASS-15.0	19170407

ETIM

ETIM 9.0	EC000309

UNSPSC

UNSPSC 21.0	43222628

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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