

# PSI-MODEM-SHDSL/ETH


Order No.: 2313643



<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2313643>

Industrial Ethernet extender, for point-to-point connections, line and ring structures. Data rates of up to 30 Mbps, distances of up to 20 km on in-house copper cables, integrated diagnostic function, two configurable alarm outputs.



Commercial data	
EAN	4  046356 509206
Pack	1
Customs tariff	85176200
Gross weight in pieces	283.40 g
Country of Origin	DE
Catalog page information	Page 559 (IF-2011)

### Product notes

WEEE/RoHS-compliant since:  
03/12/2009



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

Serial interface	
Interface 1	Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u
Transmission length	< 100 m (shielded twisted pair)
Connection method	RJ45 female connector, shielded
Conductor cross section solid min.	0.2 mm <sup>2</sup>

Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	13
Serial transmission speed	10/100 Mbps, autonegotiation
Interface 2	SHDSL interface according to ITU-T G.991.2.bis
Transmission length	< 20 km (Depending on data rate and cable cross section)
Connection method	2 x 2-pos. COMBICON plug-in screw terminal blocks
Serial transmission speed	4-wire operation: 64 kbps ... 30 Mbps 2-wire operation: 32 kbps ... 15.3 Mbps
Interface 3	USB 2.0
Connection method	Mini-USB type B, 5-pos.
Transmission length	< 5 m (Only for configuration and diagnostics)

#### Power supply

Nominal supply voltage	24 V DC $\pm 5$ % (as an alternative or redundant, via backplane bus contact and system current supply) 5 V DC (configuration only, via mini-USB type B)
Supply voltage range	18 V DC ... 30 V DC
Typical current consumption	< 180 mA (24 V DC)
Connection method	COMBICON plug-in screw terminal block

#### General data

Width	35 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	-20 °C ... 60 °C (Freestanding (40 mm spacing to the right and left), no supply of other modules via the device) -20 °C ... 55 °C (Mounted in rows with zero spacing and low power dissipation of aligned modules) -20 °C ... 50 °C (Mounted in rows with zero spacing)
Ambient temperature (storage/transport)	-20 °C ... 45 °C (Mounted in rows with zero spacing and supply of other modules via the device) -40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	10 % ... 95 % (no condensation)
Altitude	5000 m (For restrictions see manufacturer's declaration)

Electrical isolation	DIN EN 50178 (VCC // Ethernet // DSL (A) // DSL (B))
Test voltage data interface/power supply	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Standards/regulations	EN 50121-4
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Degree of protection	IP20
Net weight	185 g
Housing material	PA 6.6-FR
Color	green
MTBF	1017 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) 205 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
Conformance	CE-compliant
ATEX	Ex II 3 G Ex nA IIC T4 Gc X
UL, USA / Canada	cULus listed UL 508

**Certificates**



Certification: cULus Listed

Certification Ex: ATEX

Certifications applied for:

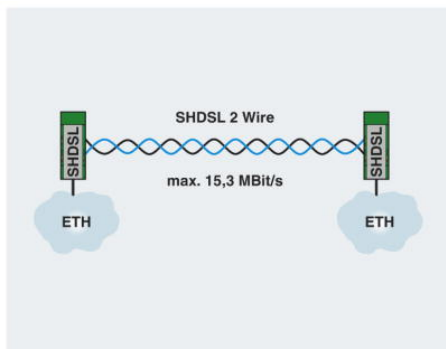
**Accessories**

Item	Designation	Description
<b>Cable/conductor</b>		
2744827	FL CAT5 HEAVY CONF/	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 mm <sup>2</sup> , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line
2832263	FL CAT5 PATCH 0,5	Patch cable, CAT5, assembled, 0.5 m
2832580	FL CAT5 PATCH 5,0	Patch cable, CAT5, assembled, 5.0 m

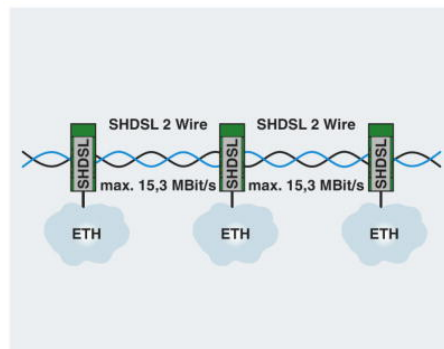
2313575	PSI-CA-USB A/MINI B/1METER	USB 2.0 cable, USB A male connector to mini-USB B male connector, length: 1 m
<b>General</b>		
2986135	CABLE-USB/MINI-USB-3,0M	USB connecting cable: USB plug type A to USB plug type Mini-B; length: 3 m
2882925	DT-TELE-RJ45	Attachment plug with surge protection for analog and digital telecommunications interfaces (up to 46 Mbps). Connection: RJ45 (RJ12/RJ11) and screw terminal block (COMBICON). Can alternatively be snapped onto DIN rails.
2891246	FL PATCH SAFE CLIP	Security element for FL patch cable
2709561	ME 17,5 TBUS 1,5/ 5-ST-3,81 GN	DIN rail connector for DIN rail power supply unit, gold-plated contacts, for DIN rail mounting, 5-pos.
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A

**Drawings**

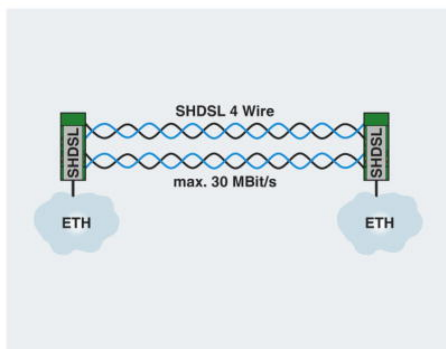
Application drawing



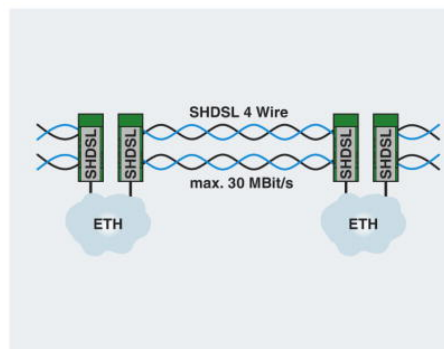
Point-to-point connection (2-wire)



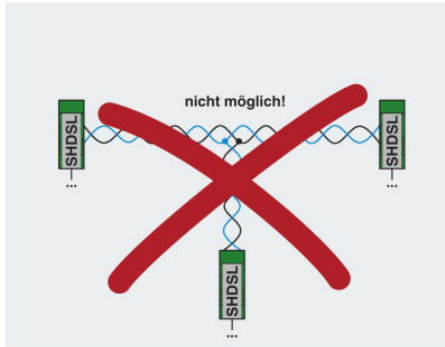
Linear structure (2-wire)



Point-to-point connection (4-wire)

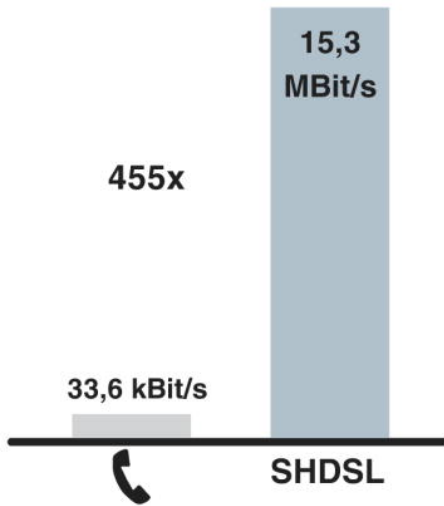


Linear structure (4-wire)



Multipoint communication via SHDSL not supported

Diagram



Speed comparison between the analog and SHDSL connection

**Address**

PHOENIX CONTACT Ltd  
Halesfield 13  
Telford / Shropshire / TF7 4PG,England  
Phone 01952 681 700  
Fax 01952 681 799  
<http://www.phoenixcontact.co.uk>



Phoenix Contact Ltd.  
Technical modifications reserved;