

Data sheet:

ST fiber-optic line <> RS422/RS485 interface



Article no.: 61210

EUR 218.00*Net price for
commercial users

Connect industrial interfaces over glass fiber optics

The model 61210 Interface transmits serial RS422 and RS485 data via multi-mode glass fiber optics over a distance of up to 3800 meters.

Properties

Interfaces:

- **1 x RS422/RS485**
 - 9-pin Sub-D plug
- **1 x multi-mode fiber optic cable**
 - ST connector

Management and connectivity:

- **No re-configuration of transmission parameters required**
- **Transmission of two data channels**
- **Noise-immune transmission over a distance of up to 3800 meters**
- **Galvanic isolation up to nearly any value between the connected devices**

Voltage supply:

- **External**
 - 12V-24V DC via plug-in screw terminal
 - Galvanically isolated power connection

Standards & more

- **Conforms to standards both in office and industrial environments:**
 - High noise resistance per EN 61000-6-2
 - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

♥ Wish for something!
Your suggestions for improvement and additions

Worth knowing

Data transmission over long distances and in extremely noisy environments make the use of fiber optics the logical choice as a physical transmission medium.

The use of plastic fiber optics allows easy-to-install connections over relative short distances of up to 100 meters. But for distances above this limit the use of glass fiber optic cable is unavoidable.

While distances of up to 4km are easily accomplished with multimode fiber optics, greater distances are the domain of singlemode fiber optics.

It used to be that routing and assembling glass fiber optics created significant problems for the users, but today - thanks to the wider use of glass fiber technology in networking - many companies are offering this work as a service.

Technical data

Connections and displays:

Serial port:	RS422/RS485 port 9-pin SUB-D adapter
Glass fiber optics port:	ST plug adapter
Operating modes:	RS422 RS485 4-wire with automatic control RS485 2-wire with automatic control
Switching time:	approx. 10µs for switching from data send to receive for RS485 automatic control (can be changed on request)
Baud rate:	0..1.5Mbaud
Data format:	any format
Supported signals:	RxD, TxD
Fiber-optic medium:	Multi-mode fibers 50/125µm, 62,5/125µm
Wavelength:	820nm
Optical budget:	50/125µm: typically 9.6dB, min. 4.2dB 62.5/125µm: typically 13.4dB, min. 8.0dB
Maximum distance:	50/125µm: typically 3200m, min. 1400m @3dB/km 62.5/125µm: typically 3800m, min. 2200m @3.5dB/km
Galvanic isolation:	Isolation voltage min. 1kV DC between supply and serial connection
Supply voltage:	12..24V AC/DC
Current consumption:	typ. 80mA @12V DC, 40mA @24V DC
Supply connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Displays:	1x LED Data 1x LED Power




Housing and other data:

Housing:	Plastic housing for top hat rail installation 105 x 22 x 75mm (L x W x H)
Enclosure rating:	IP20
Weight:	approx. 100g
Ambient temperature:	Storage: -40..+70°C Operating in non-rowed installation: 0..+60°C Operating in rowed installation 0..+50°C
Permissible relative humidity:	5..95% RH (non-condensing)
MTBF:	716.382h @25°C per MIL-HDBK-217
Life expectancy:	> 25 years at 25°C ambient temperature
Scope of delivery:	ST fiber-optic line <> RS422/RS485 interface Please order power supplies separately as accessories


Accessories










*Net unit price for commercial users

Power supplies

Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00€	
Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00€	
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00€	

Cable and Connector Accessories

DB9F connection cable with open cable ends, left angled, 1.5m	11902	17.50€	
---	-------	--------	---

9-pol. SUB D socket with soldering terminals and shielded housing	11904	9.90€	
9-pol. SUB D socket with screwing terminal and shielded housing	11905	21.00€	
FO-Accessories			
Patch cable ST/ST, 1 meter, 50/125um	81901	16.00€	
Patch cable ST/ST, 2 meters, 50/125um	81902	21.00€	
Patch cable ST/ST, 5 meters, 50/125um	81905	26.00€	
Patch cable ST/ST, 10 meters, 50/125um	81910	37.00€	
Patch cable ST/ST, 15 meters, 50/125um	81915	42.00€	
Mechanical Accessories			
Mounting bracket for wall mounting	58812	11.20€	
19" DIN rail	58813	21.00€	

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.



We are available to you in person:

Wiesemann & Theis GmbH
Porschestr. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

© Wiesemann & Theis GmbH, subject to mistakes and changes: Since we can make mistakes, none of our statements should be applied without verification. Please let us know of any errors or misunderstandings you find so that we can become aware of and eliminate them.

[Data Privacy](#)