W&T connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

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Data sheet:

ST fiber-optic line bus <> RS485 interface

Article no.: 65210

EUR 218.00

*Net price for
commercial users

Network bus systems over glass fiber optics

Using multiple glass fiber optic adapters model 65210 a copper-based RS485 master-slave bus can be converted into an optical bus without additional protocols. Transmission is at a rate of up to 1.5 Mbaud and in any data format.

Properties

Interfaces:

- **1 x RS485**
  - 9-pin Sub-D plug
  - 2- and 4-wire operation

- **2 x Multi-mode glass fiber optics**
  - 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 per segment**

- **Galvanic isolation up to nearly any value between the connected devices**

Power supply:

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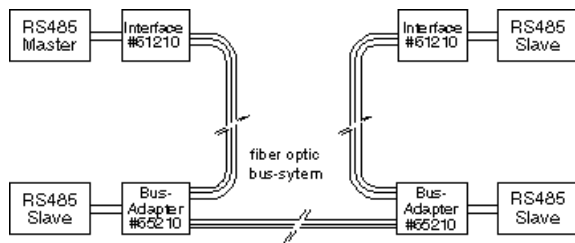 - Galvanically isolated power connection

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

Schematic diagram of an optical bus system for RS485 devices:

fiber optic bus-sytem

Technical data

Serial port:	RS485 interface 9-pin SUB-D adapter
Glass fiber optics port:	ST plug adapter SMA plug adapter on request
Operating modes:	4-wire with automatic control 2-wire with automatic control
Switching time:	approx. 10µs for changing from data sending to receiving for RS485 automatic control (can be modified on request)
Baud rate:	0..1.5Mbaud
Data format:	any format
Supported topologies:	Bus and star, but no ring structures
Supported signals:	RxD, TxD
Cascadability:	5 adapters @115Kbaud, 32 adapters @19.2Kbaud
Fiber-optic medium:	Multi-mode fiber 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. 1 KV DC between power and the serial port
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 45 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)
Life expectancy:	> 25 years at 25°C ambient temperature
Scope of delivery:	ST fiber-optic line bus <> RS485 interface Please order power supplies separately as accessories

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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, right angled, 1.5m	11903	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.

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Data Privacy