

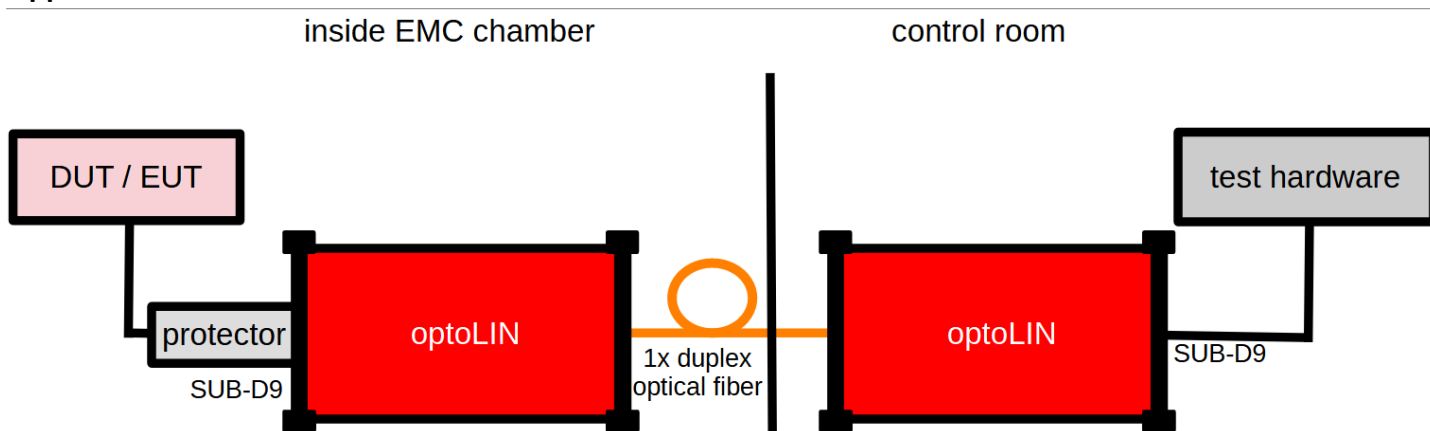
Field of application and characteristics

The *optoLIN* system can be used for the optical transmission of LIN signals with transmission rates of up to 20 kbit/s.

It consists of two identical battery supplied transceivers connected to each other with an optical fiber. With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests with automotive standards such as CISPR 25 class 5.



Application



Technical data

Channels:	1 channel
Chipset:	NXP® TJA1021©
Data rate:	up to approx. 20 kbit/s
Data direction:	bidirectional
Input impedance:	30 kΩ/220 pF (slave) and 1 kΩ/1 nF (master)
Input:	SUB-D 9 pin female
Output:	SUB-D 9 pin female
Power supply:	integrated batteries 4 Ah, consisting of 5x NiMH cells, 6 V operating time with fully charged batteries: approx. 40 h operating time can be extended with an external battery pack
Reference switch:	Vbat-switch is used to set either 12V or 24V internal voltage as reference or use the external reference (between 12V and 24V, connected via SUB-D)
Master/Slave switch:	easily switchable between master or slave mode

Charging connector:	Binder 712 (push-pull 12 mm PP12 or 9 mm PP9 on request)
Housing	anodized aluminum case with rubber protectors, stackable 135 mm x 86 mm x 65 mm
Weight:	approx. 800 g
Optical connector:	2x FSMA / duplex multimode fiber 62.5/125 µm, 850 nm

Scope of delivery

- 2x optoLIN Transceiver
- 1x 20 m duplex multimode optical fiber (OM1) FSMA/FSMA
- 2x charger for the integrated batteries, AC plug types available: A(US), C(EU), G(UK) and I(AUS)
- 1x external protector (for EMI, BCI and ESD tests)

Accessories and options

up to 13 interfaces (CAN, LIN, LAN, USB and etc.) can be installed in one housing
device in the chamber will be the standard battery supplied mobile device
(19" base unit 2HU required)

19" rack mount



up to five interfaces in one compact housing

opto 5x LIN



Optical fiber - types:	FSMA, ST, FC, LC, E2000 (all combinations possible), 62.5/125 µm or 50 µm
Optical fiber - lengths:	0.5 m – >100 m
Optical fiber - feedthrough:	FSMA/FSMA, ST/FSMA, ST/ST, FC/FC
Optical fiber - cleaning:	Fiber optic cleaning set

Optical connector - protective caps:

protective cap/cover for male FSMA optical fibers

captive cap/cover for male FSMA optical fibers (connected to the cable => does not get lost)

Optical connector - protective caps:

Protective cap/cover of FSMA optical input/output of mk devices

captive cap/cover of FSMA optical input/output of mk devices

External battery pack BP60:

for run time enhancement of the device in the EMC chamber
4 Ah or 10 Ah (additional high capacity charger needed)

Power supply PS75:

for constantly powering the device in the control room

SUB-D connector:

