

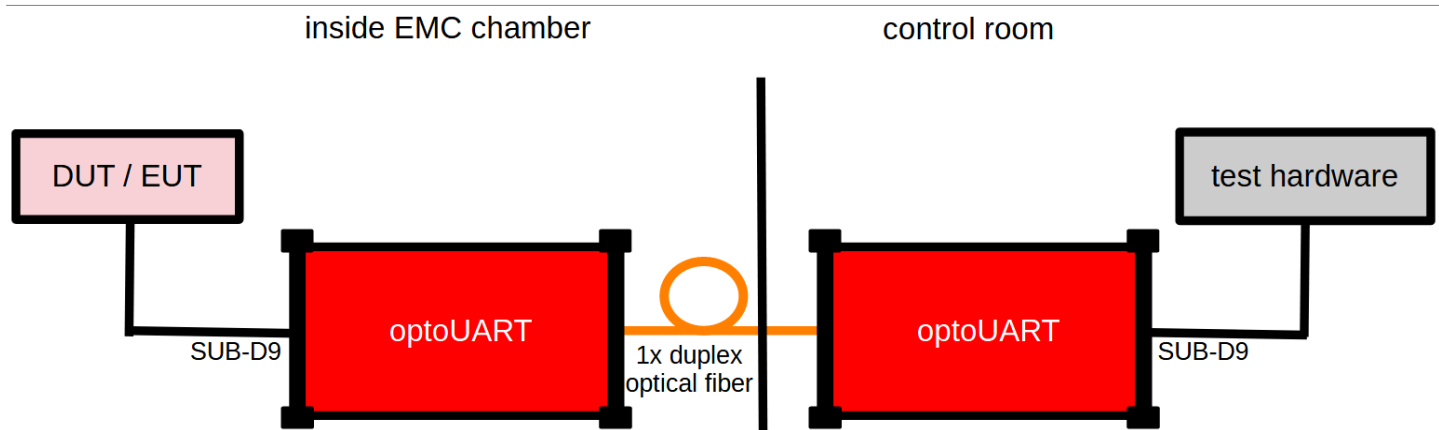
Field of application and characteristics

The optoUART system can be used for the optical transmission of bidirectional serial UART signals up to a data rate of 1 Mbit/s.

It can be used to transmit UART signals over long distances or to handle ground potential problems. With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests.



Application



Technical data

Channels:	1 channel
Data rate:	up to 1 MBit/s
Data direction:	bidirectional
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. 20 h operating time can be extended with an external battery pack
Voltage level switch:	set the UART voltage levels to: 1.8 V / 3.3 V / 5 V
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 μ m, 850 nm

Scope of delivery

- 2x optoUART 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)

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



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

