

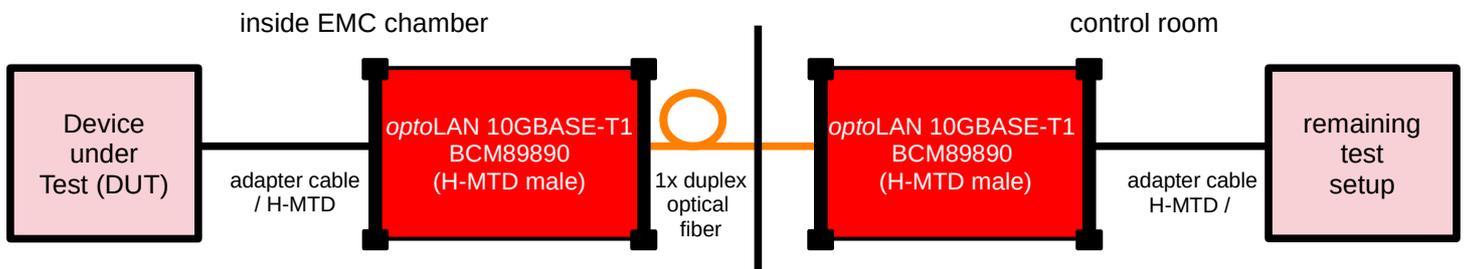
## Field of application and characteristics

The **optoLAN-10GBASE-T1 BCM89890** system is a digital bidirectional optical transmission device for automotive Ethernet LAN-10G/5G/2.5GBASE-T1 signals (switchable).

The system uses optical transmission on a fiber to avoid emissions and susceptibility of electric, magnetic, or electromagnetic fields. The system is used for the transmission and supervision of signals during EMC functional tests.



## Application



## Technical data

<b>Channels:</b>	1 channel
<b>Data rate:</b>	max. 10 Gbit/s (2.5GBASE-T1 / 5G BASE-T1/ 10G BASE-T1, switchable)
<b>Data direction:</b>	bidirectional
<b>Input:</b>	Rosenberger H-MTD male plug
<b>Output:</b>	Rosenberger H-MTD male plug
<b>Power supply:</b>	integrated batteries 4 Ah, consisting of 10x NiMH cells, 12 V operating time with fully charged batteries: approx. 20 h operating time can be extended with an external battery pack
<b>Charging connector:</b>	Binder 712 (push-pull 12 mm PP12 or 9 mm PP9 on request)
<b>Housing:</b>	anodized aluminum case with rubber protectors, stackable 135 mm x 86 mm x 86 mm
<b>Weight:</b>	approx. 1200 g
<b>Optical connector:</b>	1x FSMA / duplex multimode fiber 62.5/125 $\mu$ m, 850 nm

Sales Partner:



**ABSOLUTE EMC** LLC.  
Covering sales in North America  
United States, Mexico, & Canada

absolute-emc.com  
Phone: 703-774-7505  
info@absolute-emc.com

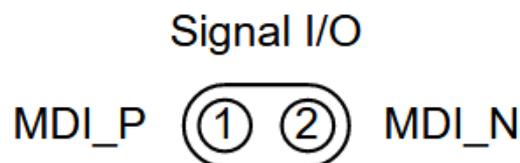
## Scope of delivery

- 1x optoLAN 10GBASE-T1 BCM89890 Transceiver
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- 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

<b>Optical fiber - types:</b>	FSMA, ST, FC, LC, E2000 (combinations possible), 62.5/125 µm or 50 µm
<b>Optical fiber - lengths:</b>	0.5 m – >100 m
<b>Optical fiber - feedthrough:</b>	FSMA/FSMA, ST/FSMA, ST/ST, FC/FC
<b>Optical fiber - cleaning:</b>	Fiber optic cleaning set
<b>Optical connector - protective caps:</b>	protective cap/cover for male FSMA optical fibers captive cap/cover for male FSMA optical fibers (connected to the cable => does not get lost)
<b>Optical connector - protective caps:</b>	protective cap/cover of FSMA optical input/output of mk devices captive cap/cover of FSMA optical input/output of mk devices
<b>External battery pack BP120:</b>	for run time enhancement of the device in the EMC chamber 4 Ah or 10 Ah (additional high capacity charger needed)
<b>Power supply PS120:</b>	for constantly powering the device in the control room

## Pinout Rosenberger H-MTD male plug (seen from front)



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