

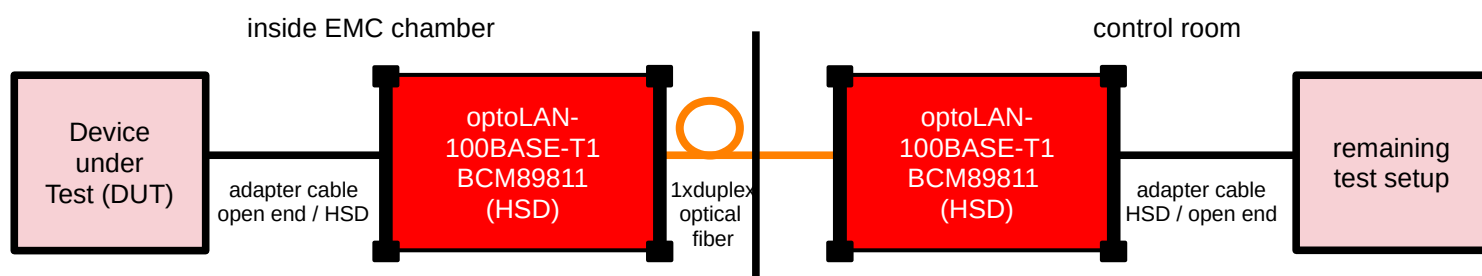
Field of application and characteristics

The *optoLAN*-BCM89811 *optoLAN* 100BASE-T1 BCM89811 system can be used for the optical transmission of automotive Ethernet signals with Broadcom © BCM89811© and other 100BASE-T1 chipsets. There are two setups available, T1 to T1 (standard) or T1 to TX (with integrated media converter => *optoLAN* 100BASE-T1 BCM89811 -MC).

The standard connector is Rosenberger HSD (Z-coded). With the optical transmission, the shielded case and the high quality connector, the system is well equipped for EMI and EME tests and has proven its functionality in many automotive EMC labs already.



Application



Technical data

Channels:	1 channel
Data rate:	up to 100 Mbit/s
Data direction:	bidirectional
Input:	Rosenberger HSD Z
Output:	Rosenberger HSD Z
Power supply:	integrated batteries 4 Ah, consisting of 5x NiMH cells, operating time with fully charged batteries: approx. 10 h
Housing	aluminum case with rubber protectors 135 mm x 86 mm x 65 mm
Weight:	approx. 800 g
Optical connector:	2x FSMA / 1x duplex multimode fiber 62.5/125 µm

Options

- 5 cell external power pack (4A h or 10 Ah) for run time enhancement
- various adapter cables and customized solutions
- push-pull charge connector (advantage: save setup time)
- integrated media converter (T1 to TX)
- stand-alone media converter (T1 to TX)
- 19" housing with up to 13 different optical devices integrated