

Field of application and characteristics

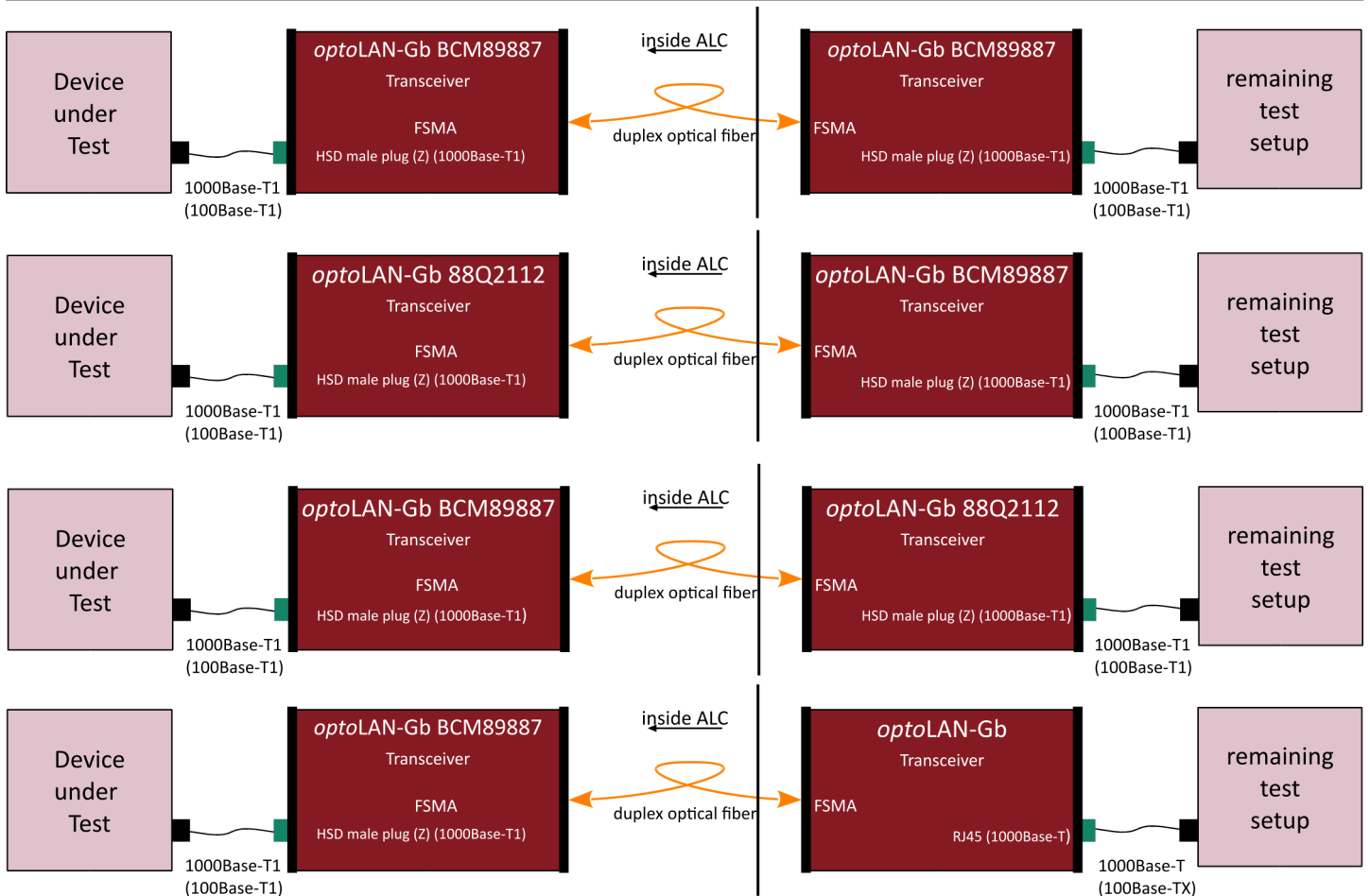
The *optoLAN 100/1000Base-T1-BCM89887* is a digital, bidirectional optical transmission system for automotive ethernet 1000Base-T1/100Base-T1 signals.

The *optoLAN 100/1000Base-T1-BCM89887* is compatible with the *optoLAN 100/1000Base-T1 88Q2112* (1000Base-T1) and the *optoLAN-GB* (1000Base-T to build a T1-Tx transmission) on the fiber side.

The standard connector is Rosenberer 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
Chipset:	Broadcom BroadR-Reach© BCM89887©
Connectors:	Rosenberger HSD (others on request)
Data rate:	1 GB/s (comp. to 100Base-T1, devices are optimized for 1000Base-T1)
Power supply:	with accumulator 4 Ah, consisting of 5 NiMH cells, integrated inside aluminum case, operating time with fully charged batteries: approx. 8 h
Case dimensions:	135 mm x 86 mm x 65 mm; light alloy with rubber protection
Weight:	approx. 800 g per device

Optical fiber

Connector / Type:	FSMA / simplex-multimode fiber 62,5/125 µm
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Options

- 5 cell external power pack (4Ah or 10Ah) for run time enhancement
- other 1000BaseT1 connectors (e.g. H-MTD, with box-in-box shield concept)
- various adapter cables and confectioned/customized solutions
- push pull charge plug (=> save setup time)
- integrated media converter setup (T1 to Tx) together with optoLAN-GB device
- stand alone T1 to Tx media converter
- 19" rack mount solution with up to 13 different optical transceivers
- ST or FC fiber plug
- For further information please contact our colleagues from the sales team