mk messtechnik
EMC Test and Measuring Systems

*opto*LAN-Gb 88Q2112

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Datasheet

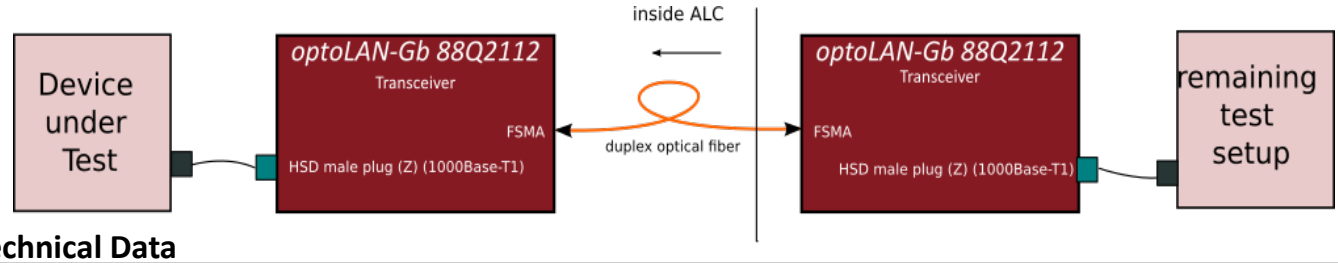
Field of Application and Characteristics

This ***opto*LAN-Gb 88Q2112** system is a digital, bidirectional, optical transmission device for automotive Ethernet 1000Base-T1/100Base-T1 signals.

There are two setups available, **T1 to T1** (standard) or **T1 to T** (with integrated media converter => ***opto*LAN-Gb**), see separate setup document.

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
Chipset:	Marvell 88Q2112©
Connectors:	Rosenberger HSD
Data rate:	1 Gb (download compatibility to 100Mbit/s not guaranteed / Devices are optimized for 1 Gb) (see chipset datasheet - you can obtain this from your Marvell partner)
Power supply:	5 NiMH cells with 4 Ah; >10 h; 5-poled charging connector
Case dimensions :	approx. 136 mm x 86 mm x 65 mm aluminum case with rubber protectors to protect connectors for lab use
Weight:	approx. 800 g per device

Optical Fiber

Connector / type:	FSMA / Duplex-Multimode LWL 62.5/125 µm

Options

- 5 cell external power pack (4 Ah or 10 Ah) for run time enhancement
- various adapter cables and confectioned/customized solutions
- push pull charge plug (advantage: save setup time)
- Adaptation of the software to implement a switch mode
  => Legacy mode (as with A0 chips) on A2 integrated in optoLAN-GB 88Q2112
- integrated media converter setup (**T1 to Tx**)
- stand alone **T1 to Tx** media converter
- 19” rack mount solution with up to 13 different optical links
- ST or FC fiber plug