

EMCtools

Fiber optic CAN / LIN transceiver
Type Canbox Highspeed / Mix



EMCtools

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Introduction and use

Functional tests e.g. in test-labs often require insulated CAN- (Controller Area Network) and LIN-busses (Local Interconnect Network) to control the device under test. For this purpose, the *EMCtools* Canbox provides 5 independent bidirectional fiber optic bus connections.

EMCtools Microbox fiber optic CAN-/LIN transceivers are well-established in EMC-labs all over the world. These transceivers have been designed for emission and susceptibility tests. Using multilayer technology and sophisticated circuit design, full CAN/LIN compatibility and the ability to perform tests at electromagnetic field levels of 270 V/m and above could be achieved.

Usually to identical transceivers are used both in- and outside the shielded enclosure. We designed the *EMCtools* Canbox as a reliable substitute when high susceptibility of bus transceivers is not needed (e.g. outside shielded rooms). It replaces up to 5 single transceivers and allows easy and direct connection of the electrical bus (e.g. CAN-/LIN-Cab) via standard 9-pin Sub-D.

If more channels are necessary our Canbox 19" Rack is available.

The Canbox channel configuration can be freely specified by the customer

Available Bus-Channels:

- High-Speed CAN / CAN FD (Flexible datarate)
- Low-Speed CAN
- Low-Speed Single Wire CAN
- LIN-Bus
- K/L-Line
- FlexRay
- J1850
- J1709
- RS-232
- RS-485
- Sent Bus (unidirectional)

Technical data

Power supply:	Plug in Wall power supply 12V DC, DC-Plug 5.5/2.5mm, center pin positive
Fiber optic:	F-SMA, standard multimode optical fiber 50 or 62,5/125µm F-ST on request, standard multimode optical fiber 50 or 62,5/125µm
BUS-connector:	9-pin Sub-D (f)
Ambient temperature:	-10°C – 50°C
Compatibility:	<i>EMCtools</i> Canbox can be combined with corresponding Microbox

Delivered devices of the system and accessories:

- 1 pcs *EMCtools* Canbox
- 1 pcs Wall power supply
- 1 pcs Printed manual