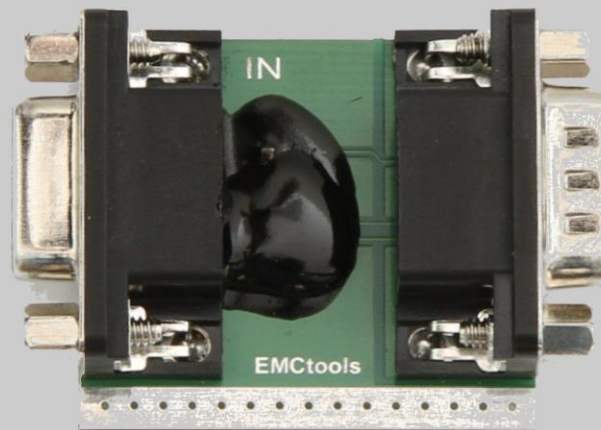


EMCtools

ESD Protector

for Microbox fiber optic
FlexRay, CAN FD, HS/LS-CAN and LIN
transceivers



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Introduction and use

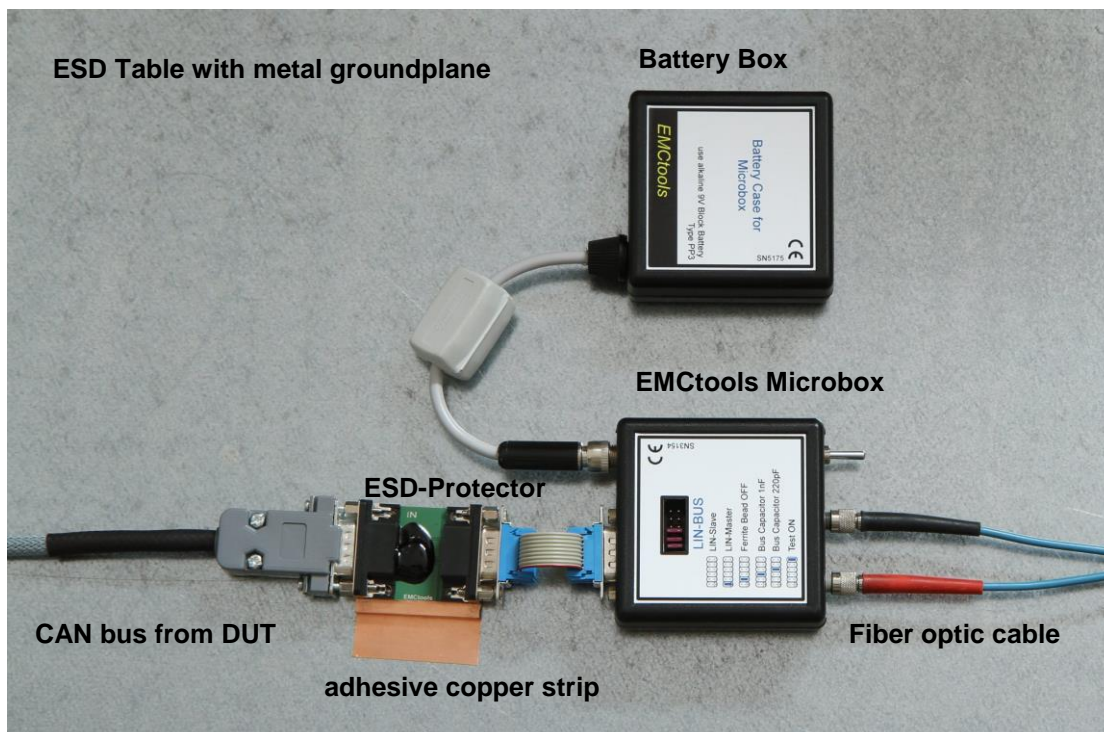
ESD tests in test-labs often require galvanic insulated busses like FlexRay, CAN- (Controller Area Network) and LIN-busses (Local Interconnect Network) to control the device under test. For this purpose the EMCtools ESD-Protector and our standard fiber optic bus transceivers (Microbox) are available. They allow bidirectional data transmission of CAN/LIN-signals via fiber optic cables and can be used during ESD tests to protect Computers or Notebooks from the ESD discharge.

The combination of ESD-Protector and EMCtools Microbox were designed for ESD discharges up to 30kV (HBM).

The ESD-Protector does not affect the max. bitrate of the used bus system and can be used in combination with:

1. EMCtools Microbox FlexRay
2. EMCtools Microbox CAN FD
3. EMCtools Microbox High Speed CAN
4. EMCtools Microbox Low Speed CAN
5. EMCtools Microbox LIN (12V-LIN)

Typical Setup:



Technical data:

Added bus capacitance: max. 10pF @ 0V, 1MHz
Power supply: none
Bus-connector: 9-pin Sub-D (female) input – connection to DUT/EUT
9-pin Sub-D (male) output – connection to Microbox
Ambient temperature: storage/operation: -40°C – 85°C (-40 - 185 °F)
Compatibility: 1. EMCtools Microbox FlexRay
2. EMCtools Microbox CAN FD
3. EMCtools Microbox High Speed CAN
4. EMCtools Microbox Low Speed CAN
5. EMCtools Microbox LIN
Size: approx. 52 x 35 x 17 mm
Weight: approx. 23g

Delivered devices of the system and accessories

1pcs EMCtools ESD-Protector
1pcs Printed manual
1pcs 5cm - Cable 9 pin D-SUB (F) / 9 pin D-SUB (M) for the connection ESD-Protector/Microbox
1pcs 1m – copper foil conductive adhesive tape