

LBITSTER.3

Link Module for SMT Systems for Connecting Decentral Components

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The LBITSTER.3 connects two SMT module blocks resulting in a single measurement system. This enables the spatial distribution of measurement amplifiers and communication modules without negatively impacting important system characteristics, such as the synchronicity of the measurement channels or the maximum sum sampling rate.



Decentralization

Positioning measurement amplifiers close to the measuring point considerably reduces the amount of cabling and at the same time minimizes measurement errors that can typically occur when analog signals are transmitted over greater distances. Furthermore, this avoids problems with tap lines when connecting bus systems.

Power Supply

Every subsystem is supplied with power either from other subsystems or with its own SMT power module. When several SMT power modules are used, the entire system can be powered on at each of the power modules used. This is also the case when special starting pulses, such as CAN signals or voltage inputs, are used.

Areas of Application

- Measuring at larger test objects (e.g. rail vehicles, entire vehicle test benches, ships, production plants)
- Spatial separation of I/Os and measurement recorder
- Distribution of measurement systems in the case of limited space

Advantages

- Simple cabling over standard network cable
- Less complex connection of measuring points and vehicle buses
- Galvanic isolation of individual module blocks
- Several link connections per measurement system
- Scalable power supply



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Technical Data

Link	
Range	50 m (when using suitable lines)
Galvanic isolation	Yes
Power Input/Output	
Power output	30 W
Galvanic isolation	Yes (in the supplying module)
Environmental Conditions	
Storage	-30 °C ... +85 °C, 10 % ... 90 % rel. humidity, non-condensing
Operation	-30 °C ... +70 °C, 10 % ... 90 % rel. humidity, non-condensing

Order Numbers

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