

# ILIN.1

Communication Module for SMT Systems for Integrating Signal-Based LIN Networks

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The ILIN.1 is a 4-channel interface module for acquiring and stimulating LIN signals. Each individual node can be used as LIN master, LIN slave and for bus monitoring.



## Areas of Application

- Acquisition of ECU signals (actuator values)
- Acquisition of sensor values
- Output of measured values on LIN for sensor simulation

## Advantages

- Combined acquisition of sensor and actuator values as well as physical measured values

## Interfaces

The four LIN interfaces of the module are each galvanically isolated. Power can be supplied to the galvanically isolated part by an external supply, for example via the on-board supply system. Every node has a pull-up resistor that can be connected via software for operation as a LIN master.

## Operating Modes

The varying uses of the module are reflected in separate operating modes. The monitor mode enables the monitoring of the communication of up to four inde-

pendent LIN buses. Further operating modes are available for operation as LIN master or LIN slave.

## Parameterization

The ILIN.1 is configured using the LIN Description File (LDF) of the connected network. Once imported into the system software PEA, the signals to be acquired can be selected to be included in the current measuring sequence and target values can be defined for output channels.



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## Technical Data

### General

Number of nodes	4
Number of signals	≤160 per module
Number of LIN headers (LIN master)	≤20
Data rate	1 SPS ... 1 kSPS online, can be set per module

### Node

LIN standard	2.0
Baud rate	9600 Bit/s ... 19200 Bit/s, can be set
Operating modes	Monitor, master, slave
Bus resistor	1 kΩ, pull-up, automatically connected in master operating mode
Galvanic isolation	Per node

### 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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