



- 10BaseT1S Mode – PLCA, CSMA/CD
- EMC immunity 200 V/m up to 18 GHz

## foEthernet\_10BaseT1S, T1

10BASE-T1S and 10BASE-T1L are Ethernet technologies used in automotive, industrial, and building automation applications. They are part of the single pair Ethernet (SPE) protocol and are designed to extend Ethernet networks to the edge.

There are two versions available:

- **10BASE-T1S**

Ethernet Mode LAN, Master Or Slave selected by switch; Bus End Node and Drop Node selected by switch

- **10BASE-T1L**

Ethernet Mode LAN, Master Or Slave selected by switch; Bus Voltage 1.1 V , 2.4 V selected by switch

## FEATURES:

- RF-Immunity:
  - Antenna radiated 200 V/m, 200 MHz –18 GHz, ISO11452-2, CW, AM, PM
  - Stripline 200 V/m, 10 – 1 GHz, ISO11452-5, CW, AM, PM
- Emission: EMC compliant to CISPR25 Class 5, 150 k – 4 GHz
- Battery (approx. 8 hours operation)
- Compact metal housing
- No galvanic connection between test equipment and measurement instruments
- Battery version: fast charge, long operation, also for 1 GBit/s

## ACCESSORIES:

### standard:

- One set consists of two identical shielded converter units
- All converters are shipped with the appropriate power supply or battery and charger

### optional:

- Fibre optic cables: variable lengths ST/FSMA-connector or ST/ST-connector
- FO-Patches (Feed Through wall Patches)

# foEthernet\_10BaseT1S, T1L

## TECHNICAL DATA

Standards	10BASE-T1S: IEEE Std 802.3™-2022 / IEEE Std 802.3 Clause 147 10BASE-T1L: IEEE Standard 802.3cg-2019
Connector	1 x Ethernet port RJ45 / Rosenberger MA-D4V019
Electrical cable type	DACAR 676
Fibre optic connection	FST
Fibre optic cables	multimode duplex fibre, 50/125 µm
Maximum fibre length	up to 300 m
Wavelength	1300 nm
Charging input	rechargeable battery (12 V DC 2 A): fast charging operating
Temperature	0 °C / +40 °C
Operating humidity	20 to 85 % RH
Weight per converter	0.7 kg
Housing	passivated aluminium, stainless steel, 2 mm
Dimensions per Converter:	105 x 125 x 65 mm (LxWxH)

Prices and specifications are subject to change without notice! For more details see manual.

**PONTIS**  
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A BRAND OF AUDIOVO

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