



- Autodetect: 10Base-TX, 100Base-TX, 1000Base-T
- >100 m due to fibre optic cables
- 4 x port version available on request
- EMC compliant to CISPR 25, Class5

## foEthernet

In complex testing environments it is often needed that electrical signals have to be transmitted into the chamber or out of the chamber to the test equipment.

For that purpose we offer a variety of different interfaces that convert electrical signals into optical signals and back. Such the signal can be transmitted via fibre optics and is immune against electrical fields.

A sophisticated shielding and filtering concept ensures that the interfaces are highly immune against radiation and do not deliver out any significant emission.

In most cases both units are shielded.

## Features:

- RF-Immunity: Antenna radiated 200 V/m, 200 MHz – 18GHz, 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) or mains powered
- Compact metal housing
- No galvanic connection between test equipment and measurement instruments
- ACK and network speed indication
- Battery version: fast charge, long operation, also for 1 GBit/s
- On Request: a special version with 4 x Ethernet ports is available
- Continuous operation with external 12V/2A power supply possible

## Accessories:

### Standard:

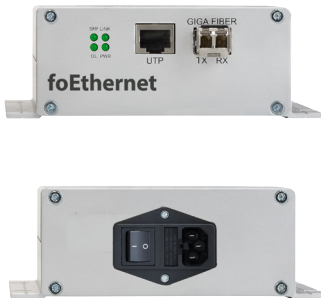
- One set consists of two shielded converter units
- All converters are shipped with the appropriate power supply or battery and charger.

### Optional:

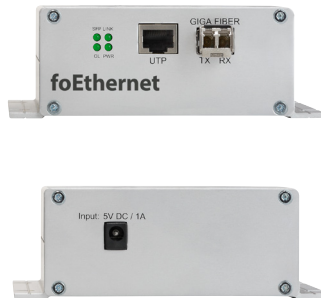
- Fibre optic cables: variable lengths ST/FSMA-connector or ST/ST-connector
- FO-Patches (Feed Through wall Patches)

Data signaling rate	100 MBit/s: 100BASE-TX, IEEE 802.3 Clause 25(IEEE 802.3u) 1 GBit/s: 1000BASE-T, IEEE 802.3 Clause 40 (IEEE 802.3ab both units must run at the same speed!
Data transfer direction	bidirectional
Connector	1x Ethernet port RJ45 4 x Ethernet ports version on request available
Electrical cable type	shielded twisted pair cable: CAT.6, 100 Ohm, RJ45 - RJ45
Fibre optic connection	FST
Fibre optic cables	multimode duplex fibre, 50/125 µm
Maximum fibre length	>100 m due to fibre optic cables
Wavelength	1300 nm
Charging input	rechargeable battery (12VDC 2A wall power): fast charge, 1h charging for appr. 8 hrs operation (1 GBit/s: 3 hrs for 15 hrs), or mains driven 230VAC, 50/60Hz
Operating temperature	0 °C / +40 °C
Operating humidity	20 to 85 % RH
Weight per converter	0.7kg
Housing	passivated aluminium, stainless steel, 2 mm
Dimensions per Converter:	105 x 125 x 65 mm (LxWxH)

Converter 1 (mains driven):



Converter 2 (battery):



Special version (4 x)



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

PONTIS EMC Products designed and manufactured by:

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