

## Product Overview

### Fast Ethernet VDSL Extender



## Description

The Fast Ethernet VDSL 2 extender offers transmission of Ethernet via conventional 2-wire lines (telephone or ISTY cable) over a distance of up to 2000 m.

With transmission speeds of up to 88 Mbps, this extender offers high network performance, which is achieved at a distance of up to 200 metres. For larger distances of up to 2000 metres, the achievable bandwidth is reduced accordingly. The maximum transmission speed is automatically negotiated depending on the distance and line quality.

Devices are used pairwise in the master/slave principle, whereby configuration is performed with a DIP switch. The network connection is via a RJ-45 socket with 10/100Base-TX auto-negotiation. The 2-wire line is connected with the system via an RJ-45 socket.

## Properties

- Transmission of Fast Ethernet via 2-wire cables
- High performance of up to 88 Mbps (at 200m)
- Easy commissioning with plug-and-play
- 12..48 VDC power input, redundant
- Effective overvoltage protection
- Potential free alarm relay contact
- Operation temperature range -40..+75 °C
- Vibration proof and shock resistant

# Specifications

## General

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**Type** Ethernet to VDSL2 extender

## Downlink (Twisted-Pair)

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**Number of Ports** 1

**Type** VDSL: RJ-45 Twisted-pair telephone

**Connector** RJ-45 jack, shielded

**Cable Type** Twisted-pair telephone

## Power Supply (DC)

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**Input Voltage** 12..48 VDC

**Power Consumption** 4.8W

**Connector** Screw terminal

## Mechanical

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**Dimensions** 36.6 mm x 140 mm x 95 mm

**Housing Color** black

**Mounting** DIN35 rail, Wall plate

## Reliability

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**MTBF** 260895 h

## Uplink (Twisted-Pair)

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**Number of Ports** 1

**Type** Fast Ethernet, 10/100Base-T(X)

**Connector** RJ-45 jack, shielded

**Cable Type** Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m

## Display

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**Type** 7 LEDs, color coded

**Power** Power 1/2  
green: power on

**Link** blinking: Transmitting  
green: link  
off: link down

**Speed** on: 100 Mbps  
off: 10 Mbps

## Environment

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**Operating Temperature** -40..75 °C

**Storage Temperature** -40..85 °C

**Relative Humidity** 5..95%, non condensing

## Standards Compliance

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**CE Mark** CE

**IEEE (Ethernet)** IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX

**Other** EN61000-6-2  
EN61000-4-2 (ESD)  
EN61000-4-3 (Radiated RFI)  
EN61000-4-4 (Burst)  
EN61000-4-5 (Surge)  
EN61000-4-6 (Induced RFI)  
EN61000-4-8 (Magnetic Field)  
EN61000-4-11 (Voltage Dip)  
EN61000-3-2 (Harmonics Current)  
EN61000-3-3 (Voltage Fluctuation & Flickers)  
IEC60068-2-6  
IEC60068-2-27  
IEC60068-2-32

## Order Information

### Description

### Article Number

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Fast Ethernet VDSL Extender, 10/100Base-TX via 2-wire cables (RJ-45 jack) up to 88 Mbps, 12..48 VDC Power Supply, redundant connection

**MS655020X**

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