MICROSENS

Product Overview

Fast Ethernet VDSL Extender

Description

The Fast Ethernet VDSL Extender offers transmission of Fast Ethernet across conventional 2-wired lines (telephone or ISTY cable) at distances of up to 1900 m.

With transmission speeds of up to 50 Mbps, this extender provides high network performance and can achieve a range of up to 300 m. The bandwidth that can be achieved is reduced correspondingly in the case of greater distances of up to 1900 m. The use of devices is in pairs according to the master/slave principle, in which case configuration is performed using a DIP switch.

The network connection takes place via an RJ-45 jack with 10/100Base-TX. The 2-wire line is connected via an RJ-45 jack. The maximum transmission speed is automatically negotiated in 10 speed levels according to distance and transmission quality and signalled to the user via LED displays.

In an extended version, the VDSL2 Extender, the maximum transmission capacity can be increased up to 88 Mbps (at 300 m). The maximum distance possible is 2000 m with a data rate of 9 Mbps. The device is design for an operating temperature range of -40 to +75 °C. Here the connection to the 2-wire cable is done via a RJ-45 port.

Properties

- Transmission of Fast Ethernet via 2-wire cables
- High performance of up to 50 Mbps (at 300m)
- 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

Type	Ethernet to VDSL2 extender

Downlink (Twisted-Pair)

Number of Ports	1
Type	VDSL: RJ-45 Twisted-pair telephone
Connector	RJ-45 jack, shielded
Cable Type	Twisted-pair telephone

Power Supply (DC)

Input Voltage	12..48 VDC
Power Consumption	4.8W
Connector	Screw terminal

Mechanical

Dimensions	36.6 mm x 140 mm x 95 mm
Housing Color	black
Mounting	DIN35 rail, Wall plate

Reliability

MTBF	260895 h

Uplink (Twisted-Pair)

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

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

Operating Temperature	-40..75 °C
Storage Temperature	-40..85 °C
Relative Humidity	5..95%, non condensing

Standards Compliance

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
Fast Ethernet VDSL2 Extender, 10/100Base-TX via 2-wire cables (RJ-45 jack) up to 88 Mbps, 12..48 VDC Power Supply, redundant connection	**MS655020X**