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## **ETH-LLAN Long Distance Ethernet Module**

## **Features**

- ☐ 5.7-15 Mbps over single pair copper cable
- ☐ SHDSL and SHDSL.bis, 3 km or more
- ☐ Channel bonding for up to 2 pairs
- ☐ Point-to-Point, Point-to-Multipoint, Add/Drop, Ring applications
- Integrated 2 port Ethernet switch
- Robust metal housing







\*: Housing type, size and inlets are typical and can differ per project

## **Outline**

The ETH-LLAN utilizes the SHDSL technology which allows data transmission at speeds up to 15 Mbps over a single pair of copper wire. In addition, ETH-LLAN supports DSL channel bonding for up to 2 copper pairs in order to achieve speeds to 30 Mbps.

An integrated 2 port 10/100BaseT Ethernet managed switch with enables the use of your distributed networked devices over simple, cost efficient, and site friendly copper cabling.

ETH-LLAN design is based on high grade industrial components and it is manufactured according to highest quality standards.

Combination of this quality with comprehensive functions providing maximum flexibility makes the ETH-LLAN the most efficient long distance cable link solution between any GeoSIG instrument or computer.

## Specifications ETH-LLAN

SHDSL

ITU-T G.991.2, G and G.bis Standards

Line Code TC-PAM16/32,

Optional 4/8/64/128

Transmit Power 13.5 (An.A)/14.5 (An.B) dBm @ 135Ω Number of Pairs 2, supporting channel bonding

Data Rate upto 15 Mbps.

Optional upto 30 Mbps

Overvoltage Protection ITU-T Rec. K.20/K.21

AWG 16-26, 0.14-1.5 mm2 twisted copper Matching Cable

**Ethernet** 

Standards IEEE-802.3, VLAN/QoS IEEE-802.1q/p

Number of Interfaces 2

Data Rate 10/100BaseT, Full/Half Duplex Data, Telnet, SNMP, WEB with Protocols MDI/MDI-X Auto Crossover, Auto

Negotiation

Connector RJ45 Female, 8 pin **Terminal** 

Standards USB V2.0 full and low speed

Data Rate 12Mbit/s Master/Slave Protocol

USB Type Mini-B female connector Connector

Power

9-18 or 18-72 VDC or 90-260 VAC Voltage AWG 12-24. Area 0.2-2.5 mm2 Matching cable

Consumption Typically 4 W

**Environment/Housing** 

143 x 87 x 37 mm, **Dimensions** 

> optional 153 x 87 x 37 with DIN rail mount optional external housing dimensions

defined per project

<500 g Weight

-25°C to +80°C Operating Temperature Storage Temperature -25°C to +80°C

Index of Protection

optional in IP65 external housing

