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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



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

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

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 5.7 Mbps,

Optional upto 15 Mbps

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

Matching Cable AWG 16-26, 0.14–1.5 mm²

Ethernet

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

Number of Interfaces

Data Rate 10/100BaseT, Full/Half Duplex
Protocols Data, Telnet, SNMP, WEB with

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
Protocol Master/Slave

Connector USB Type Mini-B female connector

Power

Weight

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

Consumption Typically 4 W

Environment/Housing

Size 143 x 87 x 37 mm,

Optional 153 x 87 x 37 with DIN rail mount

<500 g

Operating Temperature -25°C to +70°C Storage Temperature -25°C to +55°C

Storage Temperature -25°C Index of Protection IP 51,

Optional in IP65 external housing



