

दक्षिण मध्य रेलवे

SOUTH CENTRAL RAILWAY

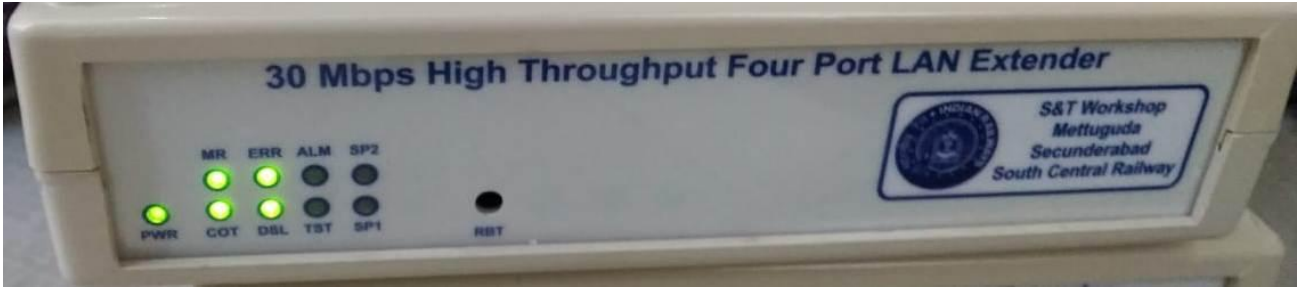
सिगनल व दूर संचार कारखाना,मेट्टूगुडा.

SIGNAL AND TELECOM WORKSHOP, METTUGUDA.

Secunderabad, Telangana.

(ISO 9001:2015 certified unit & Approved by RDSO/LKO)

LAN EXTENDER – 30MBPS



Designed & Developed by:

**Signal & Telecom Workshop
Mettuguda, Secunderabad.**

Contact:

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LAN EXTENDER – 30 MBPS

LAN Extender 2W/4W is a G.SHDSL.bis modem which extends distances of fast Ethernet service with variable data rate from 256Kbps to 30 Mbps using TC-PAM (Trellis Code –Pulse Amplitude Modulation) technology.

G.SHDSL.bis technology extends transmissions farther than any other DSL technology, opening the door for service providers to deliver low cost and broadband access to a wider subscriber base. These are cost-effective to extend Ethernet distance up to several kilometers via one or two pairs of twisted copper cables, which is widely and commonly used in subscriber local loops.

KEY FEATURES:

- Provides 10/100 Mbps data connectivity on 1-pair / 2-pair unconditioned twisted copper pairs.
- Operates at multiple data rates from 256 Kbps to 15040 Kbps on one-pair cable and 512Kbps to 30080 Kbps on two-pair cable.
- TC-PAM64 (11.4 Mbps/pair) : supports 4 wires up to 22.8 Mbps
- TC-PAM128 (15 Mbps/pair) : supports 4 wires up to 30 Mbps
- Supports EFM bonding
- LED indicators for alarms

TECHNICAL SPECIFICATIONS

SHDSL Line Interface Specifications:

Line type	: 2 or 4 Wire (twisted pair operation)
Configurable	
Line Code	: TCPAM as per the ITU-T G991.2 G.SHDSL Bis
Line Impedance	: 135 Ohms
Connector	: RJ45
Transmit Signal Power up to	: 16.8dBm
Line protection	: As per ITU-T K20 and K21
Specification	: ANSI T1.601
Distance	: Supports Various Rate-Range Configurations

Ethernet Interface Specifications

No. of Ethernet ports	: (4 Port), RJ45 connectors for UTP cables
Interface Compliance	: IEEE 802.3 Compliant
Bridging Protocol Supported	: Ethernet Over First Mile EFM Protocol 10Base-T and 100Base-TX support

System Specifications:

Line speed on one pair cable	is N x 64Kbps (where N= 4 to 235)
Line speed on two pair cable	is N x 128Kbps (where N= 4 to 235)

Front Panel Indications:

Interface status and system status

Power Supply:

Operating Voltage 230VAC 50/60 Hz Operation and 48V DC

Single Power Supply Supports both the AC and DC voltages

Application:

- a) Works over 2 wire
- b) Works over 4 wire

Abbreviations

G.SHDSL.bis : **Single-pair high-speed digital subscriber line.**

: .bis file extension are files that have been created with the BelnSync software application.

TC-PAM : Trellis-coded pulse-amplitude modulation.

ANSI : American National Standards Institute

UTP : Unshielded twisted pairs.

EFM : Ethernet in the first mile.

***Price:** Rs.28,133/-