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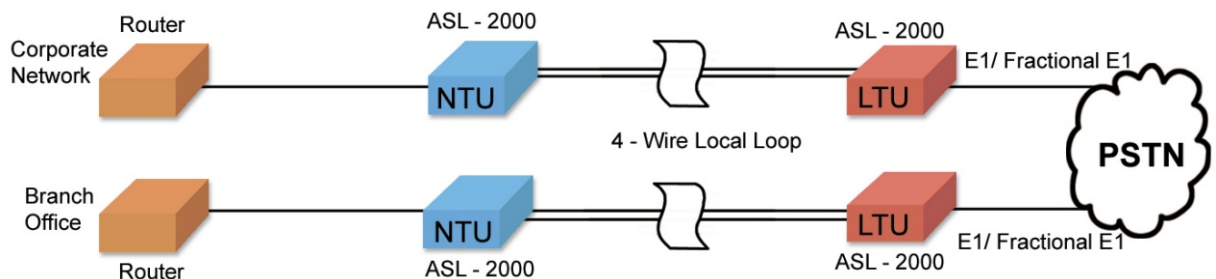
ASL - 2000 Line Driver employs High-bit-rate Digital Subscriber Line (HDSL) transmission technique which derives substantial capacity advantage in transporting digital data signals in the local network over existing copper Pairs. These digital data services may include interconnection of Routers, Multiplexers, etc.

## Features

- Confirms to ETSI Standard ETR 152 and ITU\_T Rec G991.1.
- Provides point-to-point transport of data from central office to user premises over two existing unconditioned twisted Copper pairs.
- Front panel LCD/Async control port for Configuration and Management.
- Selectable E1/fractional E1 (Nx64 Kbps) data rates with G.703 (4-W) interface.
- Choice of V.35/V.11/V.36/RS-530 and E1 (G.703) interface.
- Loopback facility for identification of faults in communication path.
- Built in BERT facility for quantitative error performance and monitoring of communication path.
- Available in stand-alone.
- 170V to 270V AC or -40V to -60V DC (optional).

## Applications

### Corporate Leased Line



## Description

- ASL 2000 Line Driver supports data rates of Nx64 Kbps up to 2.048 Mbps. It operates full-duplex on Two pair local loop and is suitable for last mile connectivity applications.
- The available data interface options include:
  - E1 interface operating at 2.048 Mbps (E1) speeds.
  - V.35 /V.11/V.36/RS-530 user data interface operating at Nx64 Kbps. The value of 'N' (1 to 31) may be configured by the user according to bandwidth requirements.
- The Nx64 Kbps V.35/V.11 HDSL unit works along with E1 HDSL unit for connectivity between digital interfaces at the customer premises and an E1 backbone at the central office.
- An embedded management channel transmits remote control and diagnostic information simultaneously with no Interference to the data flow. Configuration, monitoring, and diagnostics of local and remote units are available via Asynchronous terminal or front panel LCD (Optional).



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## Specifications

# ASL - 2000 Line Driver



### Line Interface

No. of pairs	2 unconditioned copper pairs
Encoding	2B1Q coding with echo cancellation
Conformity	ETSI ETR 152 and ITU_T G.991.1 standards
Protection	Resettable fuses in series and GD tubes/MOVs in shunt with the line as per ITU_T K.21, K.20 and K.12
Connector	Terminal block (spring type)

### User Interfaces

E1 Interface	G.703/G.704 of ITU_T
Conformity	4 wire 120 ohms balanced twisted pairs
Type	2.048 Mbps / fractional E1
Speed	HDB3
Encoding	4 way terminal block (spring type)
Connector	Re-settable fuses in series and GD tube in shunt
Protection	

### Data Interface

Interface	V.35/V.11/V.36/RS-530
Speed	Nx64 Kbps (N = 1 to 32) up to 2.048 Mbps
Connector	V.35 Interface on 34 pin Female connector or 25 pin 'D' type All other interfaces on 25 Pin 'D' type female

### Management/Configuration

Thru async. port provided on the system  
By Front Panel LCD

### Clocking Options

Recovered from user interface  
Internal mode  
Clock derived from line interface

### Diagnostics

Local loopback  
Remote loopback  
Digital Loopback  
PRBS pattern generation for qualitative testing of communication path

### Indicators

Power Supply indication	PWR
Line status indicators	LINE1, LINE2
User Interface	
Digital interface	TXD, RXD & DTR
E1 Interface	SYNC, FRAME & AIS
Test Diagnostics indication	TST, ERR

### Power Supply

Stand-alone unit	170V to 270V AC or -40V to -60V DC (optional)
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### Physical Dimensions (Approx.)

Stand-alone	220 mm (wide) x 260 mm (depth) x 1U (height)
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