

ASL - 6401

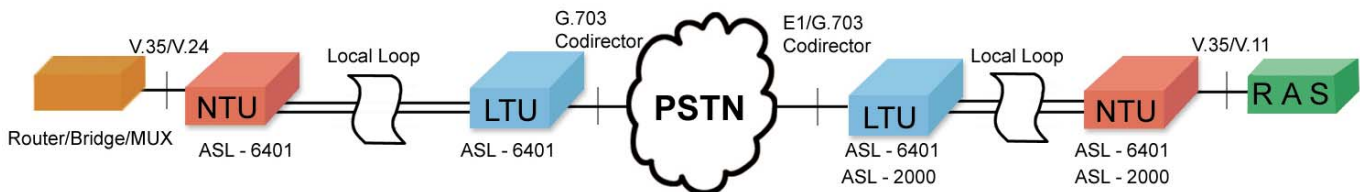
Avantel's ASL 6401 Baseband modem provides full duplex connectivity over 2-wire copper circuit at speeds of 64 Kbps and 128 Kbps. These modems are typically used to inter-connect computers or networking equipment (e.g., Routers, multiplexers, packet switches) located at different sites over a leased point-to-point digital circuits.

Features

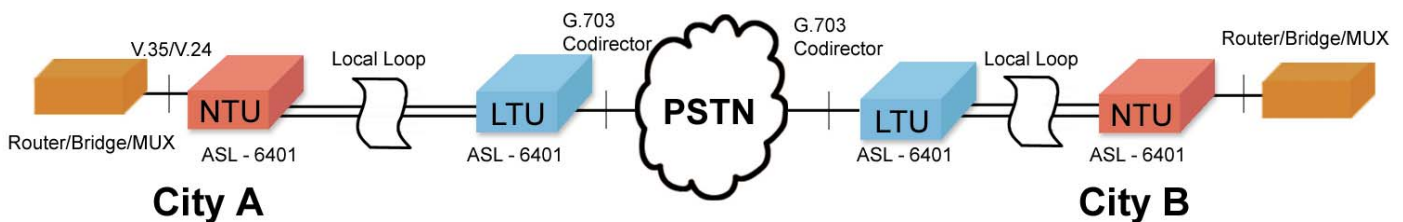
- 2-wire full duplex operation using echo cancellation technique
- Standard 2B1Q line encoding with a reach up to 7.0 km independent of data rate on 0.5 mm (24 AWG) unconditioned twisted copper pair
- Digital interfaces: V.24/V.35/V.36/V.11/RS-530/G.703 co-directional interface
- Loopback facility for isolation of faults in the communication path
- Built in BERT facility for qualitative error performance monitoring of communication path

Applications

ISP Application



Leased Line Application for Intranet



Description

- ASL-6401 Baseband Modem utilizes 2B1Q line coding and echo cancellation technique for full-duplex operation over a 2-wire unconditioned twisted copper pair
- The system has two identical units one designated as LTU (Line Termination Unit) and the other as NTU (Network Termination Unit)
- The LTU and NTU together provide the capability to drive the full-duplex digital data on unloaded twisted pair used as subscriber loop
- The modem comes with a wide choice of user interfaces to suit different applications
- All digital interfaces, except G.703 codirectional interface, support both 64Kbps and 128 Kbps speeds
- LTU can be configured to operate in a variety of clocking modes while NTU operates in line clock mode
- These modems incorporate several useful diagnostic features for carrying out fault identification. Diagnostic tests are activated through front panel switches or through the user interface control signals. Loopback diagnostics as per ITU-T Rec. V.54 and pattern generation and detection as per ITU-T Rec O.152 are supported
- A number of front panel indicators are provided to reflect the status of the modem
- Also available in rack mount card and stand alone versions

Specifications

Line Interface

Line type	2-wire unloaded twisted copper pair; 135 ohm balanced impedance
Line encoding	2B1Q with adaptive echo cancellation and equalization
Distance	Up to 7.0 km independent of data rate on 0.5 mm (24 AWG) twisted copper pair
Connector	2-way terminal block
Protection	Over-voltage & current protection as per ITU-T Rec. K.12, K.20 and K.21

User Interface

Interface	V.24/V.35/V.36/V.11/RS-530/G.703 co-directional interface
Connector	V.35 interface : 34 pin female or 25 pin D type female G.703 interface : Four way terminal block All other interfaces: 25 pin D type female

Protection

G.703 interface : Resettable fuses in series and MOVs in shunt

Clocking Options

Internal mode
User interface mode (G.703 interface or DTE supplied TXCLK)
Line clock mode

Diagnostics

Local loopback
Remote loopback
Digital loopback
BERT

Front Panel Indications

Power supply indication	PWR
Line status indication	ACT and CRC

User interface

G.703 interface	SYNC, AIS
DTE interface	TXD, RXD, TXC, RXC& DTR
Diagnostics indication	TST and ERR

Power Supply

Stand alone unit	-48V DC \pm 15 % or 230V AC \pm 20 %
Rack mount	-48V DC \pm 15 % or 230V AC \pm 20 %

Physical Dimensions (Approx.)

Stand alone	175mm(w) x 230mm(d) x 1U(h)
Rack mount	(W) x 230 mm (D) x 19"(W)