

# Jupiter 2560 High Speed IDSL Network Termination Unit



Morph and harmonize your network

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## Descriptions

The JUPITER 2560 is a high-speed, Synchronous and Asynchronous Network Termination Unit (NTU). It fully complies with ANSI T1.601 utilizing 2B1Q line coding and echo cancellation techniques to provide a full duplex operation at data rates ranging from 9.6 Kbps to 128Kbps over a 2-wire unconditioned line. The operating range will be up to 7.8 Km over a 24 gauge 2-wire twisted-pair. It also provides diagnostic capabilities, such as analog loopback, digital local and remote loopback, and BER test with 511 test pattern for troubleshooting both the NTU and the transmission line.

The JUPITER 2560 allows connection to a variety of DTE interface such as: V.35, EIA-530, RS-232D and X.21/V.11. Applying an optional 64Kbps codirectional G.703 interface, it can easily connect to Channel-Bank for utilizing CSU/DSU services. The sub-rate functions comply with ITU-T X.50 division 3 and can also provide 9.6, 19.2 and 38.4 Kbps data services for the Digital Data Network (DDN).

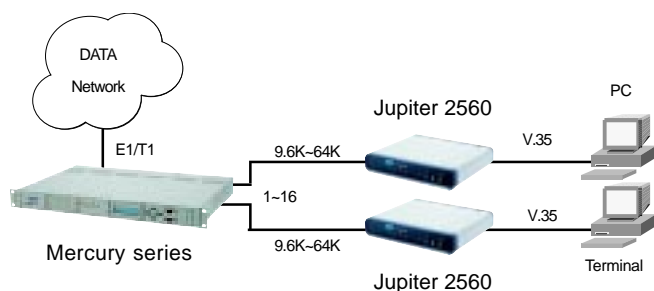
## Features

- Fully complies with ANSI T1.601
- Supports digital interfaces: RS-232D/V.28, V.35, EIA-530, X.21/V.11 & G.703 codirectional 64Kbps
- Synchronous/ Asynchronous data format:  
Synchronous: 9.6 to 128 Kbps  
Asynchronous: 9.6 to 38.4 Kbps
- Operating range up to 7.8 Km over 0.5mm wire (24 AWG)
- Internal DIP switch configuration
- Display: 6 LEDs with keypad switch
- Diagnostic capability including AL, DL, RDL and 511 test pattern
- Supports digital interfaces: RS-232D/V.28, V.35, EIA-530, X.21/V.11 & G.703 codirectional 64Kbps
- Compatible with Mercury IDSL card



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## Application Diagram



## Technical Specifications

### DTE Interface

- RS-232D/V.28 25pin D type, female

### Line Interface

- RJ-45

### Line Requirement

- 2wire: one unloaded twisted-pair

### Line Coding

- 2B1Q

### Operation Range ( BER<10<sup>-7</sup> )

- 2-wire mode
  - Up to 5.5km over 26 gauge wire
  - Up to 7.8km over 24 gauge wire

### Data Rate

- Async Speed: 9600, 19200, 38400bps
- Sync Speed: 9600, 19200, 38400, 64000, 128000bps

### Equalization

- Adaptive EQ

### Diagnostic Capabilities

- Analog loopback
- Digital loopback (local or remote)
- BERT: Bit Error Rate Test with 511 test pattern and error display

### Timing

- LT: Internal or External clock ( $\pm 100$ PPM)
- NT: Network clock

### Output Level

- 13 dBm at 135  $\Omega$

## LED Indicators

- LED:
  - PWR-Power on
  - ERR-Error Alarm
  - TXD-Transmit data
  - DCD-Data carrier detect
  - RXD-Receive data
  - TST-Test mode
- Switch button:
  - TP-Test Pattern
  - AL-Analog Loopback
  - DL/RDL-Digital Loopback

## Power Requirements

- AC source: 110 VAC or 220VAC

## Power Consumption

- Less than 2 Watts (stand alone type)

## Dimensions

- Stand alone: 218 (W) x 39.5 (H) x 183 (D) mm

## Weight

- Stand alone: 1.5 Kg

## Operating Environment

- Operation temperature: 0 °C ~ 50 °C (indoor)
- Storage temperature: -25 °C ~ 70 °C
- Relative humidity: up to 95% (non-condensing)

## Ordering Info

Basic Unit	Description
Jupiter 2560	NTU with I/F including R232, RS-530, X.21 and V.35 changeable by user, AC power adapter
Jupiter 2560G	NTU with I/F including G.703 64K condirectional, AC power adapter



The Professional Partner

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\* Specifications subject to change without notice.