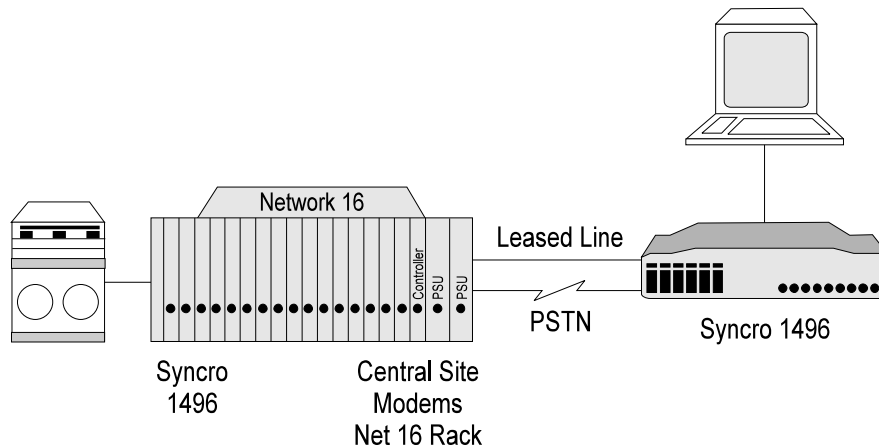


Syncro 1496 V32bis Leased Line Synchronous Modem



Features

- Synchronous operation from 14,400bps down to 1200bps
- Fully automatic dial backup and restoral for non-stop leased line operation
- Front panel switches and LEDs for configuration loading, dialling, diagnostics and monitoring
- Command port supporting extended AT command set
- Support for V.32bis, V.32, V.22, V.22bis, V.33 and V.29 modulation schemes
- 2 or 4-wire operation
- Automatic fall-back/forward
- Leased line or PSTN operation
- V.25 auto-answer
- Time of day/day of week dial backup restrictions in conjunction with the Network 16 Controller Card or Network
- 12 Factory and 4 user configurations
- 20 number telephone directory
- Closed user group security
- AT command, V.25bis, front panel or control signal (C/DTR) dialling
- Comprehensive line quality analysis

- Remote configuration using upload/download to save expensive site visits
- Local and remote loopbacks to verify end-to-end operation
- In-built test pattern generator and checker
- Standalone or Network 16 Rack options for maximum flexibility
- Integral power supply on standalone unit
- Network manageable from DomainView Network Management System

General Description

The Syncro 1496 is a high speed synchronous leased line modem. It is designed for applications ranging from synchronous dial-up services to high-speed point-to-point use. It offers a fully automatic dial backup and restoral, making it ideal for use where continuous communications are required.

Multi-standard Operation

In V.32bis, V.32 and V.33 modes, trellis coding is used for maximum transmission performance. V.22bis, V.22, and V.29 modes are provided for backward compatibility.

Stored Configurations

12 frequently used configurations are pre-set and can be easily loaded using the front panel buttons. These configurations may be modified to suit individual requirements and stored as one of four individual user defined configurations.

Command Port

A separate command port is provided to allow configuration and monitoring of call progress without interrupting the main data channel. Local and remote configurations can be changed and telephone numbers entered.

Non-Stop Operation

The Syncro 1496 gives the reassurance of a full non-stop communications link, whether operating your leased circuits in 4-wire V.33 or V.29 mode or 2-wire V.32bis V.32, V.22bis or V.22 mode. Any leased line failure is recognised and reported immediately. If required, the Syncro 1496 can then establish an alternative link on dial backup lines using V.32bis at 14400bps, V.32 at 9600bps V.22bis at 2400bps or V.22 at 1200bps. The leased line is monitored continuously and as soon as normal operation can be safely restored, the Syncro 1496 will automatically switch back to the leased line. This feature gives minimum dial-up costs as well as non-stop operation.

Security

When dial backup is initiated, the Syncro 1496 uses a proprietary method of tone generation to ensure only genuine backup calls are accepted.

Time Of Day/Day of Week Restrictions

In conjunction with the Network 16 Controller Card, the Syncro 1496 can be programmed with a dial backup profile which allows the user to prevent the modem from performing a dial backup at certain times of the day and certain times of the week.

Dialling Methods

The Syncro 1496 offers a choice of 4 different dialling methods:-

- Front panel dialling from the first pre-stored directory numbers
- Dialling using AT commands
- Dialling using V.25bis commands
- Dialling on DTR

Tests And Diagnostics

Local and remote V.54 compatible loopback tests are included in the Syncro 1496. These tests can be activated either by using the front panel buttons, by software command or from the DTE interface. A built-in test pattern generator verifies operation and an error count is reported.

Finally a comprehensive range of line quality measurements are available to allow on going assessment of line performance.

Technical Specification

Physical Description

Standalone	275x190x46mm
	1 5Kg
Rack Card:	Single slot 310x20x156mm

Front Panel

Buttons	6 push buttons
Indicators	9 LEDs

Rear panel (standalone only)

DTE	Female 25-way D-type
Command Port	3.5mm (supplied with cable)
Power	Flying lead with plug Power on/off switch
Line	Leased line, flying lead PSTN via socket Lead supplied

Modulation Schemes

V.32bis	14400bps 12000bps or 7200 bps 2 or 4-wire Leased line or PSTN
V.32	9600bps or 4800bps 2 or 4-wire Leased line or PSTN
V.22bis	2400bps 2 or 4-wire Leased line or PSTN
V.33	14400bps or 12000bps 4-wire Leased line
V29	9600bps, 7200bps or 4800bps 4-wire Leased line
V.22	1200bps 2 or 4-wire Leased line or PSTN

Data Formats

Type	Synchronous
Clock	Internal, external or slave
Call Control	Front panel dialling AT command dial V.25bis dial (async, byte sync or HDLC) DTR dial

Diagnostics	V.54 compliant Local analogue loop (loop 3) Remote digital loop (loop 2) Local analogue loop and test Remote digital loop and test EPROM checksum Software revision
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Environment:

Power	220-240V 100mA, 50-60Hz (standalone)
Humidity	5% to 95% (non-condensing)
Operating	+5 deg C to +40 deg C
Storage	-25 deg C to +55 deg C