Sunrise SERIES

V.3600 Data/Fax Modem

The Telenetics V.3600 is a high performance V.34/V.42bis data and fax modem. It allows users to transmit critical applications at 33.6 kbps in synchronous and asynchronous environments, and is capable of throughput rates up to 230.4 kbps. Telenetics' technology leadership continues to offer exceptional speed, features and versatility for all networking needs.

Data Modem Overview

Compliant with ITU-T V.34, the V.3600 incorporates advanced technology that enhances operation on less-than- ideal transmission lines. These include: echo canceling, automatic adaptive line equalizing, trellis coding techniques, adaptive baud rate selection, transmit preemphasis, automatic transmit power selection, constellation shaping, and nonlinear encoding and precoding. The V.3600 LCD front panel gives you interactive fingertip control of option selection and modem configuration. The 32-character display and three pushbutton keys let you scroll through a complete menu of option choices, displaying the currently selected options and prompting you for changes. The V.3600 is also easily configured by AT commands or by the remote configuration feature. Nine preset factory option configuration sets simplify set up for most standard applications.

Fax Modem Overview

The V.3600 is fully ITU-T Group III compatible to let you communicate with any other Group III compatible fax device. The V.3600 conforms to the EIA-578 standard interface between a fax modem and a computer with fax software. When used with an EIA Class 1 software package, the V.3600 can send and receive a fax document at 14400, 9600, 7200, 4800, or 2400 bps. T.30 error correction ensures your fax will arrive at its destination without transmission errors.

The V.3600 is available both as a standalone unit and as a rackmount card for the RM 16 enclosure.

Features and Benefits

- **High Speed Fax**
  Allows communication with any ITU-T Group III compatible fax device
- **Remote Configuration**
  - Front panel and AT driven
  - Option settings of a remote unattended modem can be changed over the phone line
  - Password security denies access to unauthorized users
- **Automode**
  - ITU-T V.8 compliant
  - Ensures connection at the highest common rate
- **Automatic Rate Adaption (ARA)**
  - Dynamically adjusts data rate backward or forward to conform to various line conditions.
  - Multiple levels of security
  - Password, password with callback, user-programmed
  - Capacity 50 passwords/50 phone numbers
- **Dial backup**
  - Switches to a dial line if the leased line connection fails
  - Automatically returns to leased line operation
  - Integrated V.25 bis
  - Combines modem and autocall
  - Requires only one port on the host machine
  - Eliminates additional hardware
- **Asynchronous Error correction/Data compression**
  - ITU-T standard V.42bis
  - Hayes AT command set compatible
  - 2 and 4-wire leased line operation
  - Storage for nine phone numbers
- **Autodial**
- **Autoanswer**
- **Call progress indication**
- **Software volume control**
- **Rackmountable**

Proven Telenetics quality and reliability for mission critical enterprise network applications.

Ideal for meeting the disaster recovery requirements of today's public frame relay services.

Robust, high performance maintains connectivity over a wide range of varying line conditions.

Telenetics

Modem Specifications

Data Rates
- ITU-T V.34 33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400
- ITU V.32bis 14400, 12000, 9600, and 7200 bps trellis coded
- ITU V.32 9600 and 4800 bps uncoded
- ITU V.22bis 2400 and 1200 bps
- ITU V.21 300 bps (async only)
- Bell 212A 1200 bps
- Bell 103 300 bps (async only)

Operation
- 2-wire full-duplex dial-up or leased line;
- 4-wire full-duplex leased line

Modulation
Compatible with ITU-T V.34, V.33, V.32bis, V.32, V.29, V.27, V.22bis, V.22, V.21 and Bell 212A and 103

Error Correction/Data Compression Protocols
- MNP 2-5; ITU-T V.42/V.42bis
- Transmitter Output Level
  -9 dBm permissive, -9 to -30 dBm in 1 dB increments for cellular applications 0 to -30 dBm in 1 dB increments for leased line operations (V.34: -6 to -30 dBm in 1 dB increments for leased line operation)

Carrier Detect Level
Dynamic to -43 dBm

RTS/CTS Delay
0 to 150 ms (±2 ms) in 10 ms increments

Line Equalization
Automatic adaptive

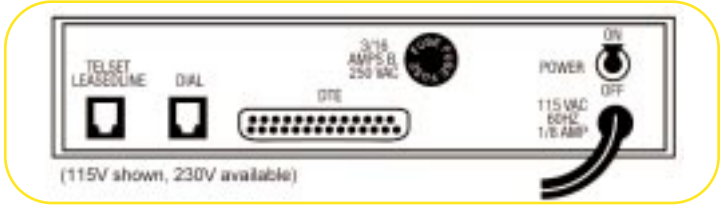
Timing
Internal, external, or receive

Internal/External Transmit Clock Frequency
Selected bit rate ±0.01%

Digital Interface
EIA-232D, ITU-T V.24; DB25 female connector

Telco Connection
8-pin modular jack, dial and leased lines

Test
- V.54 remote loopback control
- V.52 511 PN pattern
- Analog loopback
- Analog loopback with test pattern
- Local digital loopback
- Remote digital loopback
- Remote digital loopback with test pattern
- Test pattern generation/checking



(115V shown, 230V available)

Telenetics

Fax Specifications

Compatibility
ITU-T Group III compatible when used with Class 1 fax software

Data Rates
14400, 12000, 9600, 7200, 4800, 2400 bps

Operation
Half-duplex over 2-wire dial lines

Modulation
14400/12000/9600/7200 bps QAM;
4800/2400 bps DPSK; 300 bps FSK

Compliance
EIA-578; ITU-T V.21, V.27ter, V.29, V.17

General Specifications

Environmental

Operating temperature:	32˚-122˚F (0˚ to 50˚ C)
Storage temperature:	-40˚-158˚F (-40˚ to 70˚ C)
Relative humidity:	0 to 95%, non-condensing

Size

Width:	7.0 in (17.7 cm)
Height:	2.5 in (6.3 cm)
Depth:	9.6 in (24.3 cm)

Power Requirements
- 115 VAC ±10%, 50/60 Hz;
- 230 VAC ±15%, 50/60 Hz; maximum 14 watts
- Available 12-60 VDC input
- Available +12/-12/+5 direct input DC

Certification Compliance/Approvals

Safety:	UL 1950, CSA 950
Telecom:	FCC Part 68 (U.S.) IC-CS-03 (Canada)
EMC Compliance:	FCC Part 15, Class A

Service and Ordering
Telenetics and its partners offer a full range of Network Maintenance, Systems Integration, Software Subscription Services, and Network Operations Services. Services may differ from country to country. Contact your local Telenetics representative for service offering and warranty details at the telephone number listed below or access our web site referenced below.

TECHNICAL SPECIFICATIONS