

DUXBURY VC SERIES

High performance modems

Description

The Duxbury VC Series modems are high performance, synchronous and asynchronous, full duplex, multi-standard modems. They are designed for use on 2-wire dial and 2/4-wire leased line circuits.

The modems are fully compliant with ITU-T V.34, V.32bis/V.32, V.22bis/V.22, V.23 and V.21 international standards, operating at speeds of 33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400, 1200 and 300 bits per second.

V.34 mode provides full duplex operation at up to 33.6Kbps on 2/4-wire lines with line probing, symbol rate and carrier frequency automatic selection.

A range of performance enhancing techniques are utilized in V.34 mode, including Adaptive Precoding, Adaptive Pre-Emphasis, Non-Linear Encoding (Warping), Constellation Mapping Multi-dimensional.

Trellis Coding, Transmission power back-off (power drop), V.8 standard modem initialization and Shell Mapping.

An in-band secondary channel allows the user to monitor and control the remote site unit non-intrusively while the data link is operational. The Duxbury VC rack can accommodate up to 32 hot-swappable modem cards, control unit and single or dual power supplies. Dual power supplies give the unit redundancy in the event of failures.

Manufactured and distributed by:

DUXBURY
Networking

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Specifications

- > Fully compatible with ITU-T V.34+/ V.34/ V.32bis/ V.32/ V.26bis/ V.22bis/ V.22/ V.23/ V.21/ V.24/ V.28/ V.25bis/ V.54/ V.52/ V.42/ V.42bis/ V.14/ V.13/ V.8
 - > MNP2-4 / V.42 error correction
 - > MNP5 / V.42bis data compression
 - > Extended AT and ITU-T V.25bis command set
 - > V.13 simulated carrier in half duplex mode
 - > Automatic leased line dial back-up and restore
 - > Auto fall-back and fall-forward
 - > Remote configuration via secondary channel
 - > Front panel lock and password protection
 - > Analogue Loopback, Digital Loopback and Remote Digital Loopback (with or without pattern) BERT test pattern: 511
 - > Auto or manual dialing/ answer
 - > Front panel configuration via keypad and LCD
 - > G3 FAX send/ receive
 - > Dial-up security
- Data Format
- > Synchronous or Asynchronous
 - > Total bit length: 8, 9, 10, 11
- Data Speed
- > Asynchronous
75/ 300/ 600/ 1200/ 2400/ 4800/ 7200/ 9600/ 12000/ 14400/ 16800/ 19200/ 21600/ 24000/ 26400/ 28800/ 31200/ 33600/ 38400/ 57600/ 76800/ 115200bps
 - > Synchronous
1200/ 2400/ 4800/ 7200/ 9600/ 12000/ 14400/ 16800/ 19200/ 21600/ 24000/ 26400/ 28800/ 31200/ 33600bps
- DTE Interface
- > EIA RS-232C, ITU-T V.24/ V.28, EIA 530
- Line Requirement
- > Dial line, 2/4-wire leased line
 - > Transmit Level
 - > Dial line: 0 to -15dBm
 - > Leased line: 0 to -31dBm
- Receive Dynamic Range
- > -4 to -43
 - > Equalization
 - > Automatic adaptive EQ
 - > Call Progress Monitoring
 - > Dial tone, Ring, Ringback, Busy and Backup dial
 - > Line Status Monitoring
 - > TX level, RX level, S/N ratio, EQM value, Delay, Phase jitter, Freq. Offset, Far-end freq. Offset, Far-end echo, DTE format, Retrain count,
 - > Tx baud rate, Tx carrier, Rx carrier, Tx speed, Rx speed, Tx power, back-off level, Interface lead monitoring
- Memory
- > Non-volatile memory for storing 10 sets of user profile and 10 telephone numbers with 30 characters - 10 sets of factory defaults stored in ROM
- Line Interface
- > RJ-11 for Dial Line, RJ-45 for Leased Line
 - > Transmit Clock
 - > Internal, Loopback, External clock
- Dialing Command
- > Extended AT and V.25bis command set
- Dialing Type
- > Tone/ Pulse/ Mixed dialing
 - > Flow Control
 - > RTS/CTS, XON/XOFF, CTS only
- Power
- > AC source: 90~265V, Autorange, 47~63Hz. Dual power unit optional for rack
- Environment
- > Temperature: 0-50C operating, -25 to 70C storage
 - > Relative humidity: up to 95% (non-condensing)