

# Video over Frame Relay



## The VFX-250S

Frame Relay is typically used by a corporate enterprise or service provider to integrate LAN-to-LAN, inter-office and IBM SNA traffic over a single Frame Relay circuit. By carrying many different types of traffic over a common, managed network, the user can maximize bandwidth utilization and significantly reduce costs.

SciDyn's VFX-250S Video over Frame Relay Access Device is specifically designed to upgrade your Frame Relay or HDLC network to handle video conferencing applications. VFX-250 is the first device of its kind to transport continuous data bit-streams (such as H. 320) over Frame Relay services, allowing your video conferencing system to benefit from the cost-savings of Frame Relay technology.

## Standard Features

- Continuous Bit-stream Access
- Automatic Variable Buffering
- Windows Software
- External Clock
- RXD/RTS Transmit Control
- Satellite Capabilities

# VFX-250S Specification Sheet

## Network & User Interface

- Connector: Female 37-pin D type to user equipment (Video codec)
- Male 37-pin D type to network equipment (FRAD)
- Interface: RS449 (X. 21, V. 35 and others with adapter cables) RS422 balanced drivers and receivers and RS423 receivers

## User Interface

- Clock Rates: VFX-250S can accept external TT clock or it can supply clock to user equipment at the following speeds: 56, 64, 96, 128, 192, 256, 384, 512, and 768 Kbps, plus 1.024, 1.536, and 1.920 Mbps Note: The VFX-250S can accommodate a TT clock that is within +/-80 ppm of one of the standard clock speeds (listed above).
- Transmission: Supports continuous full duplex data transfer at specified clock rates.

## Network Interface

- Clock Rates: VFX-250S requires clock from network (up to a maximum of 2.048Mbps).
- Packet Parameters: Packet Length: 10 -4095 bytes DLCI: 2 byte
- FCS: standard 2 bytes

## Enhanced Buffer Management

A unique underlying protocol is used to negotiate a Master/ Slave relationship between two communicating VFX-250S units. This allows for an "end-to-end" management of the buffers to provide a "slip-free" data transfer. An automatic variable buffer (AVB) feature is provided in order to smooth the potential differences in delays across the range of user port clock speeds.

## Serial Management Interface

- Connector: Female 9 pin D type
- Interface: EIA-232, 9.6 Kbps & 19.2 Kbps, 8 bits/ no parity/ 1 stop bit
- Configuration: Windows-based configuration software is provided with the VFX-250S which allows for the management of all the options within the unit. Alternatively, a "dumb" terminal can be used to access the menu driven configuration system directly.

## Memory:

4 configuration entries are maintained within the memory of the VFX-250S. These can be updated from the much larger configuration library in the Windows-based configuration software. All configuration parameters are stored in non-volatile memory.

## Approvals:

FCC Class A Part 15, CE

## Available Settings

- User defined Site Name
- 4 configuration entries, each of which contains TX and RX DLCI settings, User Clock Speed, Packet Length, AVB mode, and RTS/RXD control of transmitted data (TXD)
- LMI type (ITU Annex A, ANSI Annex D, Frame Relay Forum, or Off)
- Master, Slave, or Auto-assign settings for Enhanced BufferManagement
- Local/ Remote Loopback facilities

## Mechanical/ Environmental

- Dimensions: H: 4.6 cm (1.8") W: 21.4 cm (8.4") D: 20.9 cm (8.3")
- Temperature: Operating: 0 to +50 C, Non-operating:-20 to +70 C
- Humidity: 10 to 90 % non-condensing
- Altitude: 3,050 M (10,000 ft)

## Power Supply

- AC Input: 100 to 250 VAC (50 -60 Hz), 15 W Maximum
- Type: Universal Desktop with IEC 320 AC input connector (can be supplied with a variety of North American/ international power cords)
- Size: H: 3.8 cm (1.5") W: 6.6 cm (2.6") D: 10.2 cm (4.0")



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