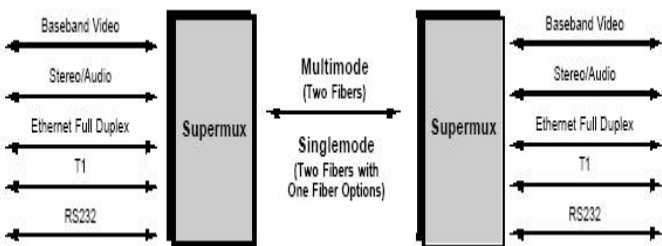


▶ VL7000 Supermux I

DESCRIPTION

The Supermux consists of baseband video, stereo audio, Ethernet, T1 and RS232 or RS422 data! Two fibers are required to send the information in both directions. There is also a one fiber option available. The VL7000 Supermux is a 125 Mb/s digital transmission system that operates by means of Time Division Multiplexing (TDM). Each separate channel of information is multiplexed onto one data stream at the transmitting side and demultiplexed at the receiving end. The quality of the information sent is extremely high. Some of the features of the VL7000 Supermux are as follows:

The baseband video channel occupies half the available bandwidth (approximately 60 Mb/s) so it is full motion, real time video with a 60+ dB SNR. In fact, the video/audio meets RS250 medium-haul specifications (broadcast quality). The audio can be either stereo or monaural with an 80+ dB SNR. The Ethernet can transport Full or Half Duplex, however, for Full Duplex Ethernet it must be supported by the interface to which it is connected. This is a true plug and play system with no field adjustments required. However, it must be factory configured for your particular application. Call the factory for your custom requirements.



BENEFITS

All in one device while transmitting both ways

One Baseband Video

Two audio channels

10 Mbps Network Connection

T1 line

Simple Data

FEATURES

One and two fiber versions

Full Duplex operation



**Radiant
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Corporation**

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P.O. Box 867
South Plainfield
NJ 07080
USA

2/2005

▶ VL7000 Supermux I

SPECIFICATIONS

Video

Video Format:	NTSC, PAL
Bandwidth:	6 MHz, 8 bit video
Input/Output Level:	75 Ohms
Signal Level:	1 volt peak to peak
Intermodulation:	<2%
SNR/CTN	>60 db minimum 64 dB typical
Electrical Connection:	BNC
Differential Phase:	<2° (10 to 90% APL)
Differential Gain:	<4% (10 to 90% APL)
Tilt:	<2%
Chrominance to Gain	<± 4%
Luminance Delay:	33 nanoseconds

Audio

Bandwidth:	20 Hz to 20 KHz (per channel)
Input/Output:	0 dBm @ 600 Ohms balanced or unbalanced
SNR:	80 dB (min)
Connector:	Terminal Block

Ethernet

Standards:	IEEE 802.3 10 BaseFL
Data Rate:	10 Mbps
Connector:	RJ45 & AUJ

TI

Format:	AMI or B8ZS
Data Rate:	1.544 Mbps
Connector:	DB15

Data

RS232:	128 Kbps
RS422:	1 Mbps
Connector:	DB9

Optical

Wavelength:	850nm, 1310nm, 1550nm,
Number of Fibers:	1
Optical Connector:	SC/APC, SC, ST

General Characteristics

Power:	115 V or 220V AC @ 3 A
Operating Temp:	0° to 50° C
Size:	17.0" W x 14.0" D x 1.75" H

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	ATTENUATION	MAX DISTANCES
VL7002	Transceiver Chassis, 2 Fibers Multimode	12 dB	10 km
VL7002/SM	Transceiver Chassis, 2 Fibers Singlemode	25 dB	70 km
VL7001/SM	Transceiver Chassis, 1 Fiber	18 dB	50 km

Note:

- Specify **X**—packaging of the unit: **U**—IU rack mount, **M**—modular (standalone) mount
- Specify **Y**—connector type: **A**—SC/APC, **E**—SC, **B**—FC, **Z**—FC/APC, **D**—ST
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory



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