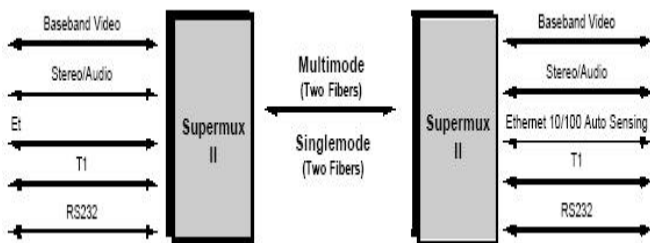


▶ VL7100 Supermux II

DESCRIPTION



The VL7100 Supermux II is an updated version of the original Supermux (VL7000). The new version transmits Fast Ethernet plus everything else the original product did - one baseband video, two audio channels, T1, and simple data (RS232 or RS422). The VL7100 Supermux II transmits all the information in both directions using two fibers for distances up to 70 km and higher. As with the original Supermux, the quality of the information sent is extremely high. The baseband video has an SNR of greater than 60 dB. The audio can be either stereo or mono (one channel) with an 80 dB SNR. The Fast Ethernet, which is the new feature, is actually 10/100 Auto-sensing. So it will connect to any hub or switch for any information of 10MB/s, 100MB/s, Half Duplex or Full Duplex. No hub/converter is needed. The optical transmission is Full Duplex Fast Ethernet, but it will connect to any Ethernet (10 base T or 100 Base Tx; Full Duplex or Half Duplex). The T1 can be any format - AMI or B8ZS.



BENEFITS



All in one device while transmitting both ways

One Baseband Video

Two audio channels

100 Mbps Network Connection

T1 line

Simple Data

FEATURES



One and two fiber versions

Full Duplex operation



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▶ VL7100 Supermux

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 BaseFX
 Data Rate: 100 Mbps
 Connector: RJ45 & AUI

T1

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, FC, FC/APC

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
VL7100	Transceiver Chassis, 2 Fibers Multimode	12 dB	10 km
VL7102/SM	Transceiver Chassis, 2 Fibers Singlemode	25 dB	70 km
VL7101/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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