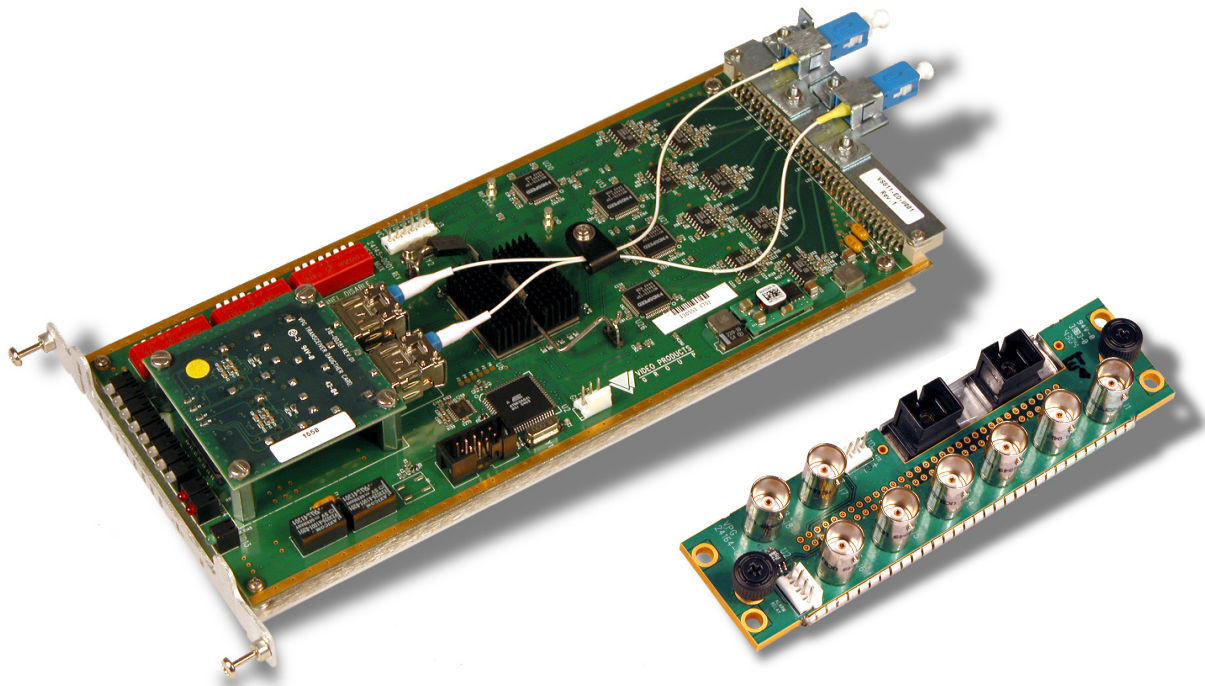


# VS811



## 8-Channel SDI/ASI Multiplexer/Demultiplexer

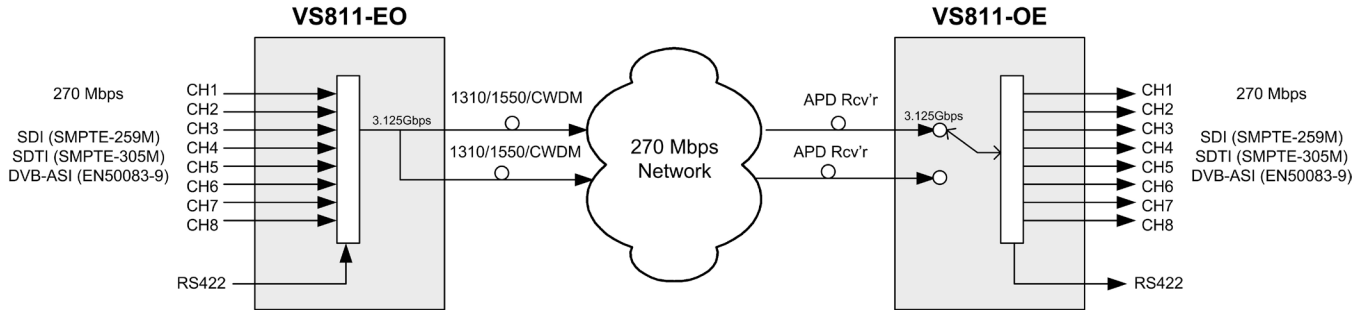


*Single card solution for  
multichannel transport  
of 270Mbps signals with  
network path diversity.*

### KEY FEATURES

- >> Multichannel digital data on a single fiber
- >> Optional second optical output for network path diversity (Mux) and optional second optical receiver for automatic switchover and network resilience (Demux)
- >> Designed to transport 270 Mbps signals complying with SMPTE-259M, 305M, and DVB-ASI EN-50083-9
- >> Removes timing and alignment jitter from the SDI signals at the Demux output
- >> Selectable Test Pattern Generator for each channel: Color Bars, PLL Pathological, Equalizer Pathological and Black Field
- >> Enable/Disable control for Mux input channels
- >> Automatic cable equalization up to 300m for Belden 8281
- >> Auxillary RS422 channel
- >> Small Formfactor Pluggable (SFP) optics available in 1310, 1550 & any ITU CWDM or DWDM wavelengths
- >> NEBS Level 3 Compliant
- >> Compatible with the VS183 Comprehensive Network Management System that provides Remote Status, Alarms & Configurations via SNMP & Ethernet





DIGITAL VIDEO	
Standards:	SDI (SMPTE-259M) SDTI (SMPTE-305M) DVB-ASI (EN50083-9)
# of Inputs:	8 (VS811-EO)
# of Outputs:	8 (VS811-OE)
Connector:	BNC
Impedance:	75 Ohm
Data Rate:	270 Mbps
Equalization:	up to 300m w/Belden 8281

OPTICAL TRANSMITTER	
# of Outputs:	2
Connector:	SC/PC
Data Rate:	3.125 Gbps
Laser Type:	SFP
Laser Wavelengths:	1310nm, 1550nm, CWDM, DWDM
Output Power Level:	0dBm min
Fiber Type:	Single Mode

OPTICAL RECEIVER	
# of Inputs:	1
Connector:	SC/PC
Receiver Type:	APD SFP
Input Wavelengths:	1260nm - 1620nm
Sensitivity:	≤ -30dBm
Max Input Power:	-8dBm
Fiber Type:	Single Mode

RS422	
# of Channels:	1
Connector:	3 pin polarized header
Data Rate:	up to 500 Kbps

LED INDICATORS	
VS811-EO	VS811-OE
Channel 1 Loss of Video	Channel 1 Loss of Video
Channel 2 Loss of Video	Channel 2 Loss of Video
Channel 3 Loss of Video	Channel 3 Loss of Video
Channel 4 Loss of Video	Channel 4 Loss of Video
Channel 5 Loss of Video	Channel 5 Loss of Video
Channel 6 Loss of Video	Channel 6 Loss of Video
Channel 7 Loss of Video	Channel 7 Loss of Video
Channel 8 Loss of Video	Channel 8 Loss of Video
SFP Primary Laser Failure	Loss of Primary Input
SFP Secondary Laser Failure	Loss of Secondary Input
DC Power	DC Power

EXTERNAL ALARMS	
N/C relay contact outputs for Major and Minor Alarm signals.	

**NETWORK MANAGEMENT**  
Compatible with the VS183 Comprehensive Network Management System that features SNMP & Web Browser Interfaces that provide monitoring and/or configuration of the card's status, alarms & controls.

Alarms	
Loss of Video	
Laser Transmitter Failure (VS811-EO)	
Loss of Input (VS811-OE)	

Status	
Channels Enabled/Disabled (VS811-EO)	
Selected Test Pattern	
Test Pattern Generator Enabled/Disabled	
Model & Serial Number	

Controls	
Test Pattern Generator Enable/Disable	
Input Channel Enable/Disable (VS811-OE)	
Laser Transmitter Enable/Disable (VS811-EO)	

PHYSICAL AND ENVIRONMENTAL	
Resides in a single slot of a VS101 or VS103 Ventura Series Chassis	
Voltage:	+3.3V, +5V
Power Consumption:	10W max
Operating Temperature:	0° to 50°C chassis ambient
Storage Temperature:	-40°C to 85°C ambient
Relative Humidity:	5% to 85%
Compliance:	NEBS Level 3, UL, CSA, CE, FCC (Part 15, Class A), C-Tick

ORDERING OPTIONS	
VS811-EO-SFP	Multiplexer Card w/dual SFP cages, no optics installed
VS811-OE-SFP	Demultiplexer Card w/dual SFP cages, no optics installed
SFP-TR3-1310-PIN-S	1310nm SFP Laser Module
SFP-TR3-1550-APD-S	1550nm SFP Laser Module
SFP-TR3-1470-APD-C	1470nm CWDM SFP Laser Module
SFP-TR3-1490-APD-C	1490nm CWDM SFP Laser Module
SFP-TR3-1510-APD-C	1510nm CWDM SFP Laser Module
SFP-TR3-1530-APD-C	1530nm CWDM SFP Laser Module
SFP-TR3-1550-APD-C	1550nm CWDM SFP Laser Module
SFP-TR3-1570-APD-C	1570nm CWDM SFP Laser Module
SFP-TR3-1590-APD-C	1590nm CWDM SFP Laser Module
SFP-TR3-1610-APD-C	1610nm CWDM SFP Laser Module
SFP-R3-APD	SFP APD Receiver