

## FEATURES

- ▷ High density – up to 36 conversions in 1RU
- ▷ All 36 I/O are configured automatically based on SFP selection
- ▷ SFP modules can be hot-swapped without de-cabling coaxial connections
- ▷ Redundant AC power supplies
- ▷ Optional integrated CWDM multiplexor/de-multiplexor does not require additional rack space and may be used to condense up to 18 signals onto one SM fiber strand with standard LC patch cables.
- ▷ Can be used for video transport, signal regeneration or wavelength shifting.

## APPLICATIONS

- ▷ Sports Broadcast
- ▷ ENG, EFP
- ▷ Military
- ▷ Live Stage Events

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18 channel shown, 36 channel 1RU available

The VF-9000 is a 1 Rack Unit, very high density video fiber optic transport platform. It has up to 36 optical I/O (18 SFP Ports) and 36 Copper, BNC I/Os. The configuration of input vs. output is configured automatically, following the I/O of the SFP installed. If a dual TX SFP is inserted in a slot, the two BNCs at the back of the slot become inputs. If a dual RX SFP is inserted in a slot, the two BNCs at the back of the slot become outputs. And finally, If a transceiver is inserted into a slot, the two BNCs at the back of the slot become an input and an output. There are no setups or configurations required.

If the unit is populated with CWDM SFPs, 18 signals can be multiplexed/de-multiplexed over/from one SM fiber. The 36 channel version requires 2 fibers. Next to the SFP cages are the 18 or 36 optical multiplexor/de-multiplexor

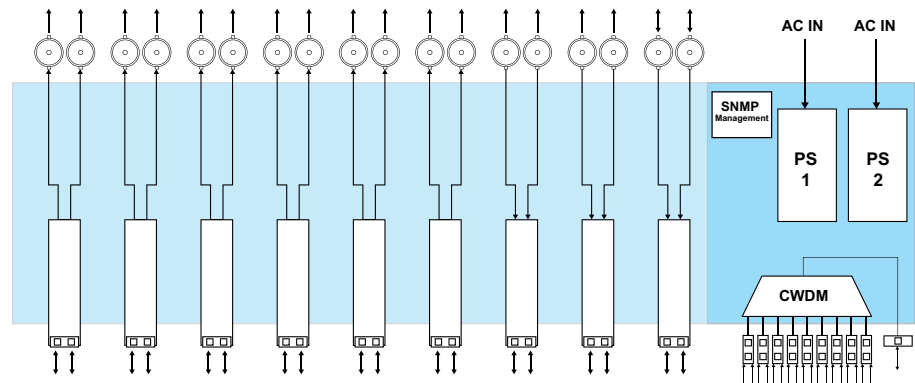
I/O's, configured with LC ports for easy patching with generic, inexpensive LC patch cables.

Each section in the VF-900 has two or four BNCs on the back, and one or two SFP cages in the front. These sections can be ordered with two channel SFPs and two BNCs as described above or with a single BNC input and loop output. In this case, there will be only one optical output. The reciprocal receiver section would have only one optical input with a dual BNC output. The 36 channel version has twice the functionality per slot, with 2 SFP slots and four HD-BNCs

Ideal for use in OB vans where space is limited and high density is a necessity. With dual AC inputs, there is peace of mind with power redundancy and no need for cumbersome external power supplies.

## TECHNICAL SPECIFICATIONS

### SDI ELECTRICAL I/O



### OPTICAL I/O

Above is show the 18 channel version. 36 channel also available with HD-BNCs

### TECHNICAL SPECIFICATIONS

#### System

Density	9 or 18 SFP's, Up to 36 EO, OE, or mixture of EO and
OE in a 1RU unit	
Impedance	75Ω
Connector	BNC for 18 channels, HD-BNC for 36 channels

#### Physical

Dimensions	1.8"H x 19"W x 4.16"D
Module Capacity	9 or 18 MultiDyne® SFP modules
Operating Temperature	-25°50°C FAN

#### Electrical

Power Supply Configuration	Dual Internal power supplies
Voltage	AC input 100-240V~47-63Hz 1.1A max
Maximum Power Consumption	25 watts (fully loaded frame with all accessories) Note: Power consumption dependent on SFP type
Connectors	C13 line chord
Status Indicators	Power LEDs and Data rate indicators
Management	SNMP management built in.

#### Digital Video

Number of copper inputs or outputs:	18 or 36
Interface :	SMPTE 424M, 297M, 292M, M259M-C, DVB-ASI
Input Coax EQ :	@3 Gbps; 80m @1.485 Gbps: 150m @143-360 Mbps: 350m
Input level:	100mV (peak to peak)
Impedance :	75 Ohms Bit-error
Rate :	10-12
Jitter :	< 0.03IU under 1 MHz Rise/fall times < 270ps
Return Loss:	>15 dB at 5 MHz - 1.485 GHz >10 dB up to 3 GHz
Mechanical,	
Environmental Dimensions (LxWxH)	17.52"x6.42"x1.75"



18 channel shown, 36 channel 1RU available

Frame Options	
VT-18-RP	1 RU VT Frame, Includes 18 Ch Multiplexer, redundant power
VT-36-RP	1 RU VT Frame, Includes two 18 Ch Multiplexer, redundant power
Card Options	
VBC-3G-xx-2	3G Transceiver Card for VB frame; Replace -xx with required CWDM wavelength (i.e. 47 for 1471nm) two BNC, one SFP port
VBC-12G-xx2	12G Transceiver Card for VB frame; Replace -xx with required CWDM wavelength (i.e. 47 for 1471nm) two BNC, one SFP port
VBC-3G-xx-4	3G Transceiver Card for VB frame; Replace -xx with required CWDM wavelength (i.e. 47 for 1471nm) four HD-BNC, two SFP port
VBC-12G-xx4	12G Transceiver Card for VB frame; Replace -xx with required CWDM wavelength (i.e. 47 for 1471nm) four HD-BNC, two SFP port
VBC-RP	Optical Repeater Card for VB frame
3G SFP Options	
MDOPT01030	Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, 1310nm
MDOPT01040	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1270nm
MDOPT01050	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1290nm
MDOPT01060	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1310nm
MDOPT01070	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1330nm
MDOPT01080	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1350nm
MDOPT01090	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1370nm
MDOPT01100	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1390nm
MDOPT01110	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1410nm
MDOPT01120	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1430nm
MDOPT01130	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1450nm
MDOPT01140	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1470nm
MDOPT01150	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1490nm
MDOPT01160	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1510nm
MDOPT01170	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1530nm
MDOPT01180	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1550nm
MDOPT01190	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1570nm
MDOPT01200	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1590nm
MDOPT01210	"Small Form Pluggable (SFP) Transceiver, MSA, 19.4Mbps to 3Gbps, CWDM, 1610nm

