

## FEATURES

- ▷ High density – up to 18 conversions in 1RU
- ▷ All 18 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



The VF-9000 is a 1 Rack Unit, very high density video fiber optic transport platform. It has 18 optical I/O (9 SFP Ports) and 18 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, all 18 signals can be multiplexed/de-multiplexed over/ from one SM fiber. Next to the SFP cages are

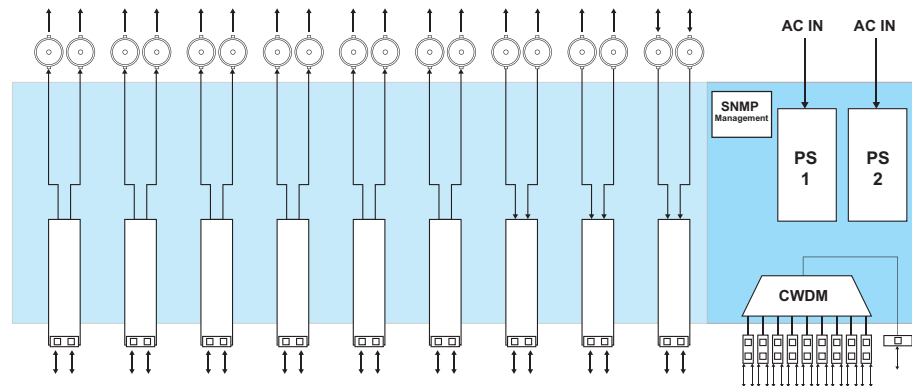
the 18 optical multiplexor/de-multiplexor I/O's, configured with LC ports for easy patching with generic, inexpensive LC patch cables.

Each section in the VF-900 has two BNCs on the back, and one SFP cage 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.

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

## TECHNICAL SPECIFICATIONS

### System

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

### Physical

Dimensions	1.8"H x 19"W x 4.16"D
Module Capacity	9 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

### Digital Video

Number of copper inputs or outputs:	up to 18
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)
Impedence :	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 to 3 GHz



Frame Options	
VF-9000-18-BNC-RP	Versatile Video Fiber Transport Frame, 1 RU, Up to 18 Video with BNC connectors, with dual power supply redundancy (Requires VBC cards & SFPs for operation)
VF-9000-18-BNC-RP-S	Versatile Video Fiber Transport Frame, 1 RU, Up to 18 Video with BNC connectors, with SNMP & dual power supply redundancy (Requires VBC cards & SFPs for operation)
VF-9000-36-MBNC-RP	Versatile Video Fiber Transport Frame, 1 RU, Up to 36 Video with Mini-BNC connectors, with dual power supply redundancy (Requires VBC cards & SFPs for operation)
VF-9000-36-MBNC-RP-S	Versatile Video Fiber Transport Frame, 1 RU, Up to 36 Video with Mini-BNC connectors, with SNMP & dual power supply redundancy (Requires VBC cards & SFPs for operation)
Card Options	
VBC-3G-C	Single SFP 3G Video Card for VF-9000 Series Frame, 2 BNCs (Required SFP sold separately)
VBC2-3G-C	Dual SFP 3G Video Card for VF-9000 Series Frame, 4 Mini-BNCs; Up to 2 SFP operation (Required SFPs sold separately)
VBC-12G-C	Single SFP 12G Video Card for VF-9000 Series Frame, 2 BNCs (Required SFP sold separately)
VBC2-12G-C	Dual SFP 12G Video Card for VF-9000 Series Frame, 4 Mini-BNCs; Up to 2 SFP operation (Required SFPs sold separately)
Please contact MultiDyne for all SFP options	