

FEATURES

- ▶ Build To Your Specification
- ▶ Video, Audio, Data & Ethernet Fiber Transport
- ▶ Choose the Signals You Need, Unit Built to Order
- ▶ Rugged 10, 6, 4 and 2 Card Boxes
- ▶ Chassis Available in Standard Black or New White finishes for Corporate, Medical, Scientific or Educational Environments

APPLICATIONS

- ▶ PTZ/POV Camera Control
- ▶ OB and Studio Links
- ▶ Intercom Extensions
- ▶ Long Distance Video, Audio, Data Transport

Provides Solutions For Any Combination of Signal Transport Over Fiber



VERSA|BRIX

The VersaBrix Series from MultiDyne provides a versatile solution for your enterprise A/V and broadcast fiber transport requirements. Utilizing up to 18 CWDM wavelengths you can transmit and receive all signals over one single mode fiber. Alternatively, each card's I/O can be sent or received over its own disparate fiber.

Mix and match signal formats ranging from RS232/422 data, analog audio, and digital video up to 12G-SDI and even 10 Gb Ethernet in the same unit. With the VX (10 card slot), V6 (6 card slot), V4 (4 card slot), VT (2 card slot) enclosures, a unit can be created to your exact specifications. The possibilities are endless by using the [intuitive web-based configurator tool](#).

Signal presence is displayed on the front panel with LED indicators. A link LED indicates the VB has established an optical link to another VB box while the front panel power meter indicates receiver sensitivity from -21 to 0 dBm.

The standard VB box comes complete with 12 VDC power supply and an option for redundancy is available. Other power options include a battery plate and remote power can be achieved over SMPTE hybrid fiber optic cable using our external JUICE or APE power supplies.

While portable in nature for field applications, mounting options for the VB Series include 1 RU Rackmount Kits, PTZ Kits to be mounted directly to your camera and wall mounting brackets.

Many VB configurations are compatible with an openGear card with similar I/O. This allows for VB's in the field transporting signals back to a centralized industry standard 2 RU frame with redundant power and DashBoard monitoring.

V6 6 Card Slot Chassis
Example Shown in White

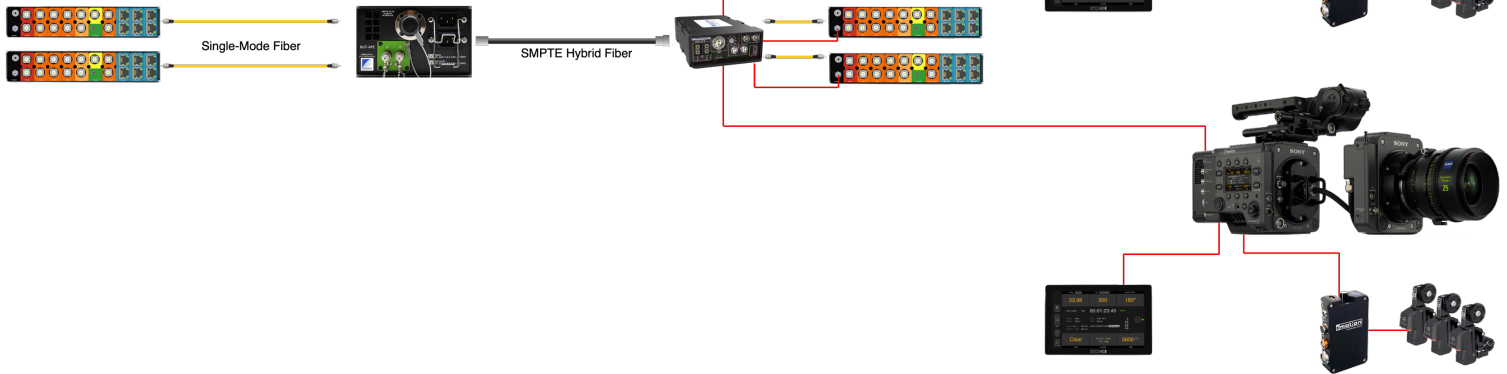


Now Available in White to Maintain Your Installation's Integrity

APPLICATIONS

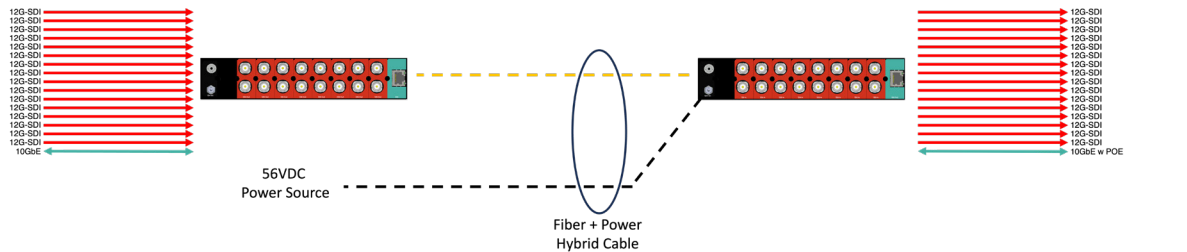
Remote Power Extension w/ Optical IO

VB + HUT-APE + QS4-APE

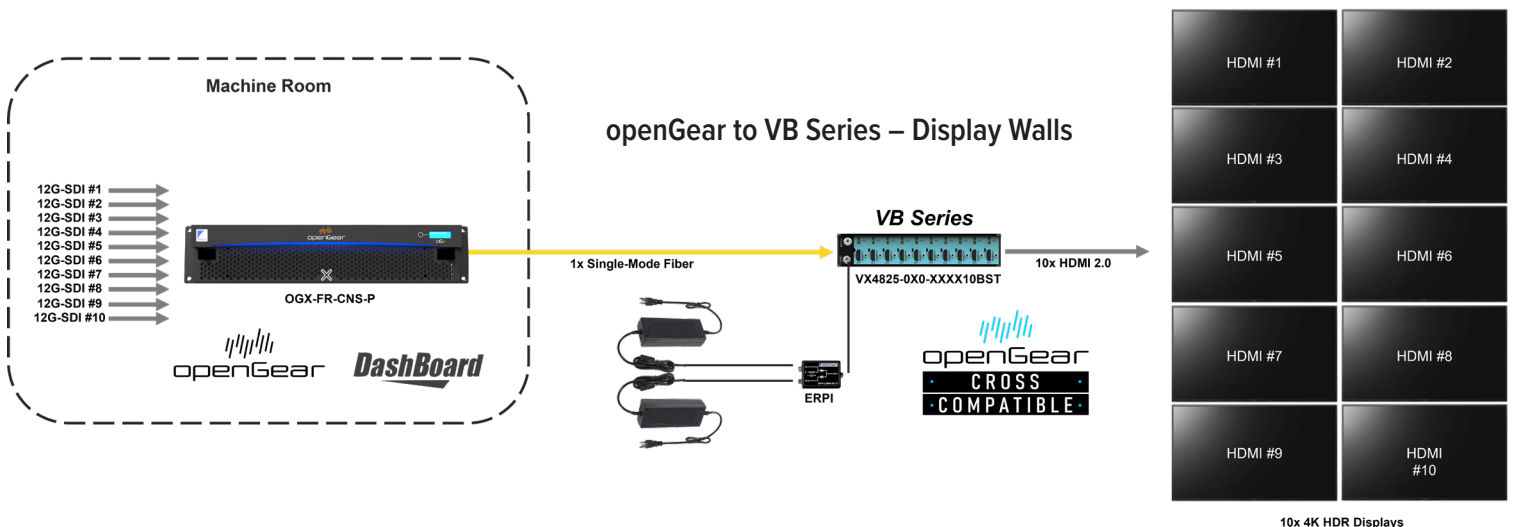


VB Low-Voltage

Structured / Hybrid / Composite Fiber w/ Power Cables

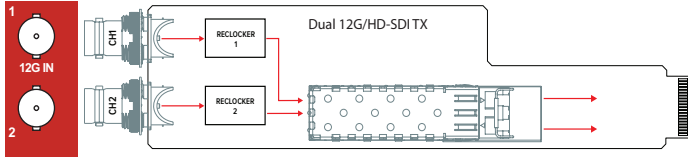


openGear to VB Series – Display Walls

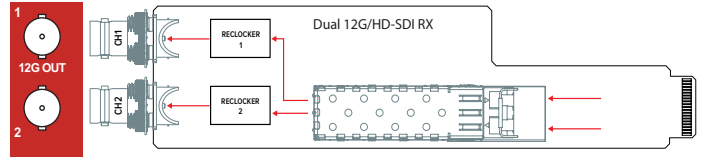


REAR MODULE DIAGRAMS

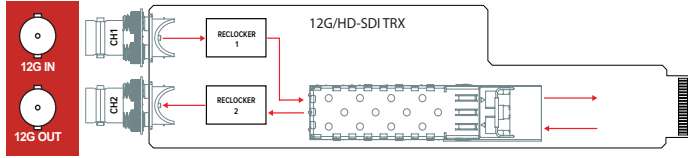
DUAL 12G-SDI VIDEO TRANSMITTER
2 SDI Inputs



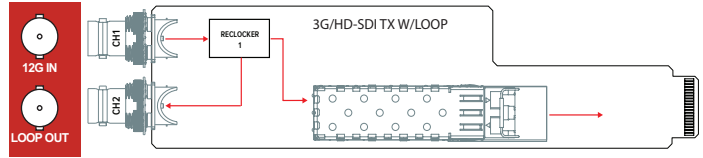
DUAL 12G-SDI VIDEO RECEIVER
2 SDI Outputs



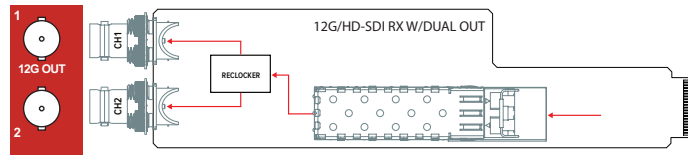
12G-SDI VIDEO TRANSCEIVER
1 SDI Input, 1 SDI Output



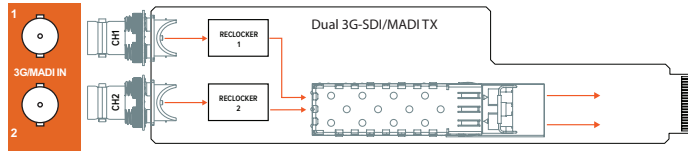
12G-SDI VIDEO TRANSMITTER
1 SDI Input with 1 BNC Loop Out



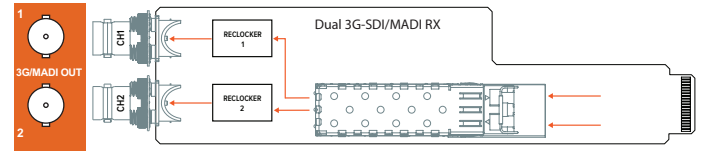
12G-SDI VIDEO RECEIVER
2 SDI Outputs, same Signal



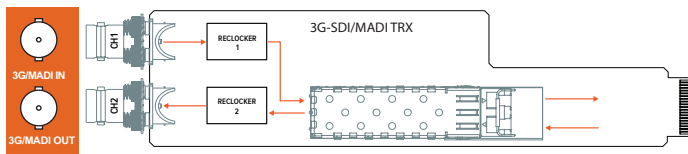
DUAL 3G-SDI/MADI TRANSMITTER
2 SDI Inputs



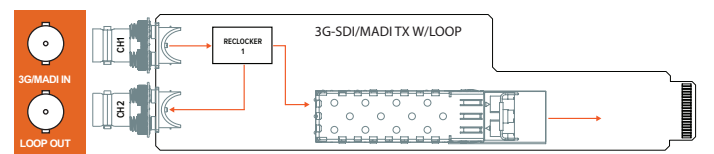
DUAL 3G-SDI/MADI RECEIVER
2 SDI Outputs



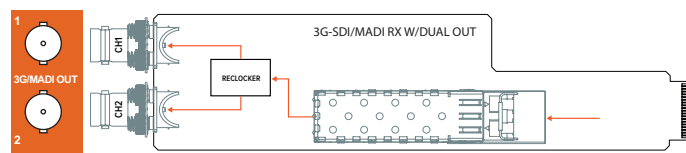
3G-SDI/MADI TRANSCEIVER
1 SDI Input, 1 SDI Output



3G-SDI/MADI TRANSMITTER
1 SDI Input, 1 BNC Loop Out



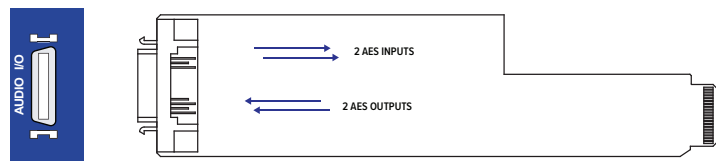
3G-SDI/MADI RECEIVER
2 SDI Outputs, same Signal



FEATURES (CONT.)

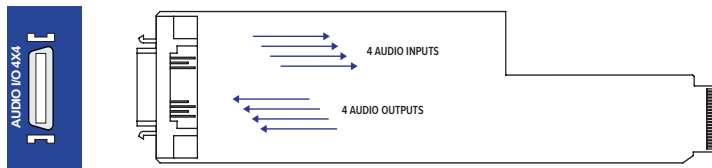
AES AUDIO TRANSCIEVER

2 AES Audio Inputs, 2 AES Audio Outputs



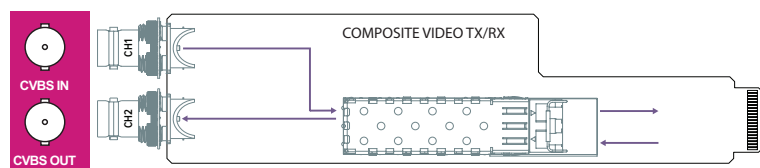
ANALOG AUDIO TRANSCIEVER

4 Analog Audio Inputs, 4 Analog Audio Outputs



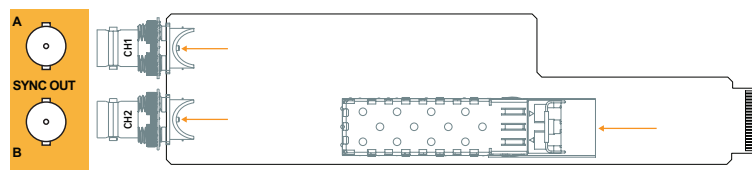
COMPOSITE VIDEO TRANSCIEVER

1 Analog Video Input, 1 Analog Video Output



GENLOCK/SYNC

Tri-Level Sync/Genlock



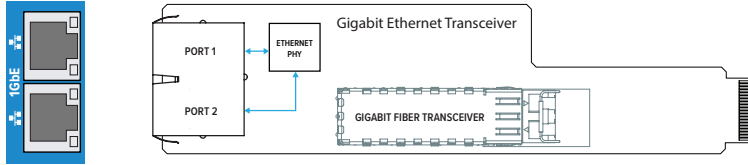
Explore the multitude of **VERSA|BRICK** configurations using the config tool:

<https://configurator.multidyne.com/launcher>

FEATURES (CONT.)

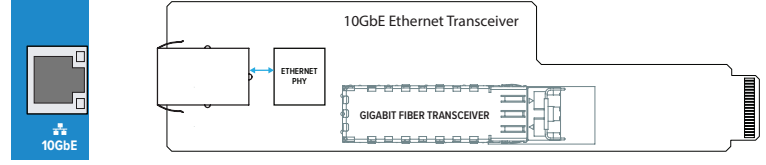
1 GbE ETHERNET TRANSCEIVER

2 Port Ethernet hub/switch



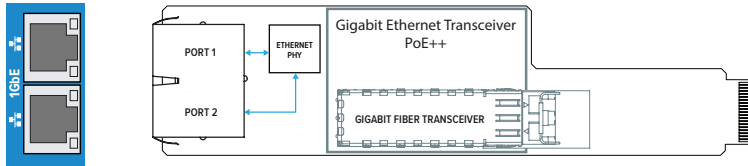
10 GbE ETHERNET TRANSCEIVER

1 Port Ethernet hub/switch



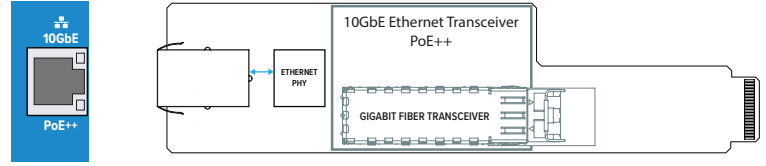
1 GbE PoE++ ETHERNET TRANSCEIVER

2 Port Ethernet hub/switch



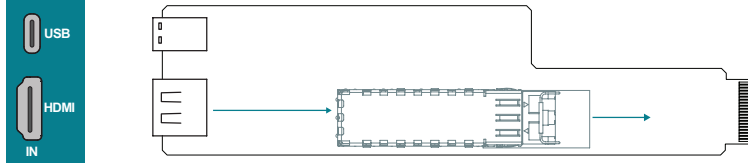
10 GbE PoE++ ETHERNET TRANSCEIVER

1 Port Ethernet hub/switch



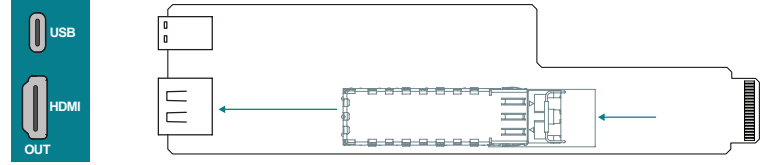
HDMI TRANSMITTER

HDMI-USB Port



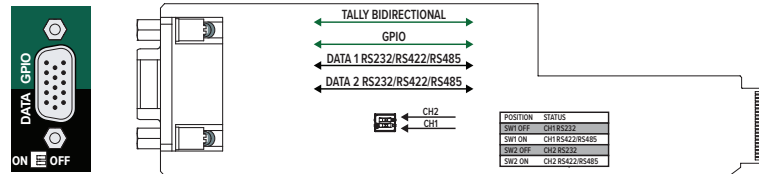
HDMI RECEIVER

HDMI-USB Port



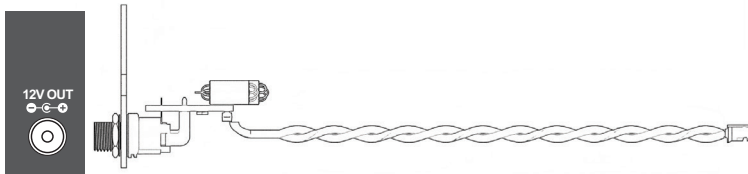
SERIAL DATA/TALLY/GPIO TRANSCEIVER

2 Bidirectional RS-232/RS-422/RS-485, 1 Bidirectional Tally, 1 Bidirectional GPIO



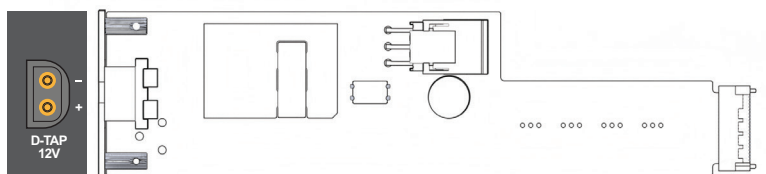
EXTERNAL POWER TAP (12V, 15W)

2.5mm Barrel



EXTERNAL POWER TAP (12V, 15W)

D-TAP



ACCESSORIES

1 METER XLR BREAKOUT FOR 2 X 2 ANALOG AUDIO
MDR Connector to 2 XLR male & 2 XLR female
2 AES Audio Inputs, 2 AES Audio Outputs



1 METER XLR BREAKOUT FOR 4 X 4 ANALOG AUDIO
MDR Connector to 4 XLR male & 4 XLR female
4 AES Audio Inputs, 4 AES Audio Outputs



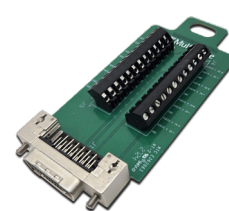
SERIAL DATA/TALLY/GPIO BREAKOUT CABLES AND DIVING BOARD ADAPTER
2 Bidirectional RS-232/RS-422/RS-485, 1 Bidirectional Tally, 1 Bidirectional GPIO,
Serial Data Diving Board Adapter, HD-15 Connector



SERIAL DATA DIVING BOARD ADAPTOR
HD-15 Connector



AUDIO DIVING BOARD ADAPTOR
MDR Audio Connector



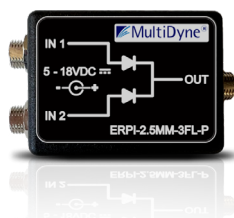
12V MULTIDYNE POWER SUPPLY FOR VB SERIES PRODUCTS
6' US Power Line Cord



POWER SUPPLY, AC-DC BRICK, EXTERNAL VB SERIES POE, 56V, 160W
6' US Power Line Cord

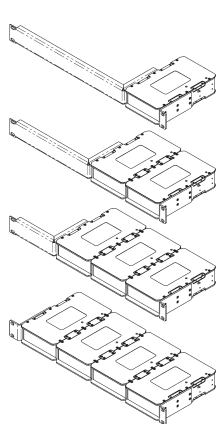


EXTERNAL REDUNDANT POWER INTERFACE (ERPI)
Dual 2.5mm Female Locking Inputs, Single 2.5mm Female Locking Output, Diode
Protected. Includes one 2' Switchcraft Male to Male Cable

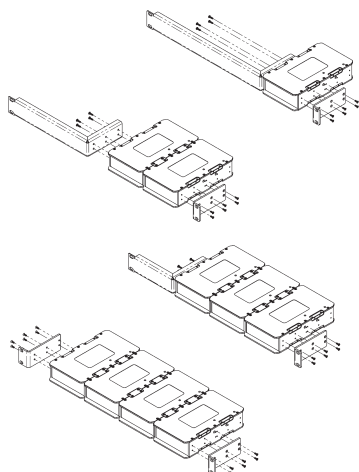


MOUNTING ACCESSORIES

UNIVERSAL RACK KIT FOR MOUNTING UP TO (4) VB SERIES V4 PRODUCTS IN A 1 RU RACK SPACE

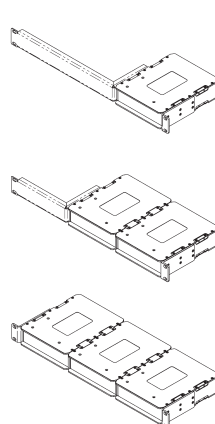


V4 Configurations

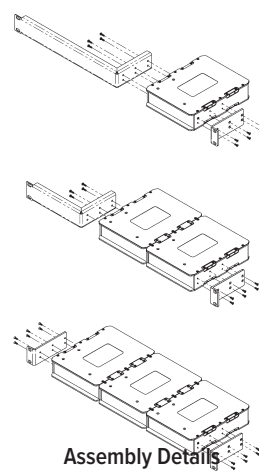


Assembly Details

UNIVERSAL RACK KIT FOR MOUNTING UP TO (3) VB SERIES V6 PRODUCTS IN A 1 RU RACK SPACE

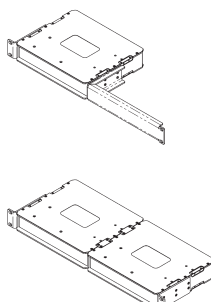


V6 Configurations



Assembly Details

UNIVERSAL RACK KIT FOR MOUNTING UP TO (2) VB SERIES VX OR QS2 PRODUCTS IN A 1 RU RACK SPACE



VX Configurations

MOUNTING ACCESSORIES (CONTD.)



UNIVERSAL PTZ PLATE SYSTEM
Camera Mount For V4/V6/Vx Products

PTZ-HD PLATE SYSTEM

Camera Mount For V4/V6/Vx Products

**Requires Touch N Go / Flying Plate and a Quick Release Receiver Camera Mounting System from Wooden Camera or Similar (Not Included)*



QUICK RELEASE PTZ PLATE SYSTEM

Camera Mount For V4/V6/Vx Products



VX Configuration Shown



VX Configuration Shown

UNIVERSAL WALL MOUNT KIT FOR VB SERIES PRODUCTS

Fits V4, V6 and VX Products



VX Configuration Shown

BATTERY V MOUNT OR GOLD MOUNT BATTERY PLATE OPTIONS

V4, V6 and VX Products

For pricing and ordering options
please refer to the VersaBrix (VB) Config Tool:

<https://configurator.multydyne.com/launcher>



V6 with V Mount Shown



V6 with Gold Mount Shown

TECHNICAL SPECIFICATIONS

Digital Video Interface

SMPTE 259M, 344M, 292M, 424M, SMPTE ST-2081, SMPTE ST-2082

Input Coax EQ	50m at 11.88Gb/s 90m at 5.94Gb/s 180m at 2.97Gb/s 240m at 1.485Gb/s 400m at 270Mb/s
Input Level	800mV
Impedence	75 Ohms
Bit Error Rate	10-12
Jitter	< 0.2UI
Rise/Fall Times	< 45ps
Return Loss	>15 dB at 5 MHz to 1.5 GHz >10 dB 1.5 to 3 GHz >7dB 3 to 6 GHz >4dB 6 to 12GHz
Gigabit Ethernet	10/100/1000 Mbps
Sync Analog	NTSC-PAL, HDTV Tri-Level

Data

232,422,485	DC-3Mbps
232 In V	+/- 25V max, 2V min
232 Out	V +/- 5V @ 3Kohm, 1.6V Sens
422,485 In	V -7V to 12V, 0.2V diff min
GPI/GPO	Normally Open, Form 1 SPST

Analog Audio

S/N	>90db
Frequency Response	< +/-0.1db (20Hz - 20kHz)
Distortion	< 0.05%
Level Adjust	28,16,10,4 dBu
Max I/O Level	+24 dBu
Impedance In (bal)	>10k Ohms +
Impedance Out (bal)	<50 Ohms

Digital Audio

Input/Output	Balanced, AES3/AES3id
I/O Impedance	110 Ohm/75 Ohm (DIP Sw) +/-20%, 0.1MHz-6.0MHz
Min/Max Input	2-7 Vpp into 110 Ohms
Rise/Fall Time	5-30ns for 10 Ohm
Jitter	< 20ns

Electro-Optical

Operating Wavelengths	DFB 1271-1591nm
TX Laser Output Power	-2 - 0dBm, Class 1
Receiver Sensitivity	-20 dBm
Fiber Compatibility	single mode
Optical Connector	ST, LC, SC
Distance Limit	20km, 40km and 80km

Power Rating

Video Card Max Power	2.12W
Ethernet Card	1.97W
SYNC Card	2.5W
Data Card	0.6W
Audio Card	1.3W
Power Input	

Mechanical, Environmental

VT Overall Dimensions (LxWxH)	7.25"x 2.875"x 1.75"
V4 Overall Dimensions (LxWxH)	7.25"x 4.22"x 1.75"
V6 Overall Dimensions (LxWxH)	7.25"x 5.75"x 1.75"
VX Overall Dimensions (LxWxH)	7.25"x 8.62"x 1.75"
Video Connectors:	BNC
SYNC and TIMECODE	BNC
Audio Connector	MDR26-F
Data Connector	HD15-F
Ethernet	Dual portRJ45
Temperature Range	-20° to +45°C
Humidity Range	0 to 90% RH Non-condensing
Power Input	12V 2.5mm jack center pin (Non-POE VB Units) 56V 2.0mm jack center pin (POE enabled VB Units)

Explore the multitude of **VERSA|BRIX** configurations using the VersaBrix (VB) config tool:

<https://configurator.multidyne.com/launcher>



ORDERING INFORMATION

Part #	DESCRIPTION
RM-1RU-V4	Universal Rack Kit for mounting up to (4) VB Series V4 products in a 1 RU rack space
RM-1RU-V6	Universal Rack Kit for mounting up to (3) VB Series V6 products in a 1 RU rack space
RM-1RU-VX	Universal Rack Kit for mounting up to (2) VB Series VX products in a 1 RU rack space
V4-PTZ-KIT	PTZ Camera Mounting Kit 2.0 for V4 Products. Kit includes top and bottom mounts
V6-PTZ-KIT	PTZ Camera Mounting Kit 2.0 for V6 Products. Kit includes top and bottom mounts
VX-PTZ-KIT-HD	Heavy Duty PTZ Camera Mounting Kit for VX/6/4 Products. *Requires Touch N Go / Flying Plate and a Quick Release Receiver Camera Mounting System from Wooden Camera or similar (not included).
PTZ-QR-V4	Quick Release PTZ Camera Mount for V4 Products
PTZ-QR-V6	Quick Release PTZ Camera Mount for V6 Products
PTZ-QR-VX	Quick Release PTZ Camera Mount for VX Products
WMK-VBSERIES	Universal Wall Mount Kit for VB Series Products - Fits V4, V6 and VX
MDR-XLR-4X4AN-1M	1 Meter XLR Breakout for 4 x 4 Analog Audio. MDR Connector to 4 XLR male & 4 XLR female
MDR-XLR-2X2AES-1M	1 Meter XLR Breakout for 2 x 2 AES Digital Audio for MDR connector; 2 XLR male & 2 XLR female
CA-HD15M2DE9-GPIO-1M	1 Meter Breakout Y Cable: HD-15 (male) to 2 x DE9
VBAUDIO-MDR	Audio Diving Board Breakout Adaptor for VB Series, MDR Audio Connector
VBDATA-HD15	Serial Data Diving Board Adaptor for VB Series, HD-15 Connector
ERPI-2.5MM-3FL-P	External Redundant Power Interface, Dual 2.5mm Female Locking Inputs, Single 2.5mm Female Locking Output, Diode Protected. Includes one 2' Switchcraft Male to Male cable
MDS050-P120	Spare / Redundant Power Supply For VB Series
PS-POE-56V	Power Supply, AC-DC Brick, External VB Series POE, 56V, 160W

Contact sales@multidyne.com with your signal requirements or use the VB Series Configuration Tool at <https://configurator.multidyne.com/vb2/>