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

VT 2 Card Slots
V4 4 Card Slots
V6 6 Card Slots
VX 10 Card Slots

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 prescence 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.
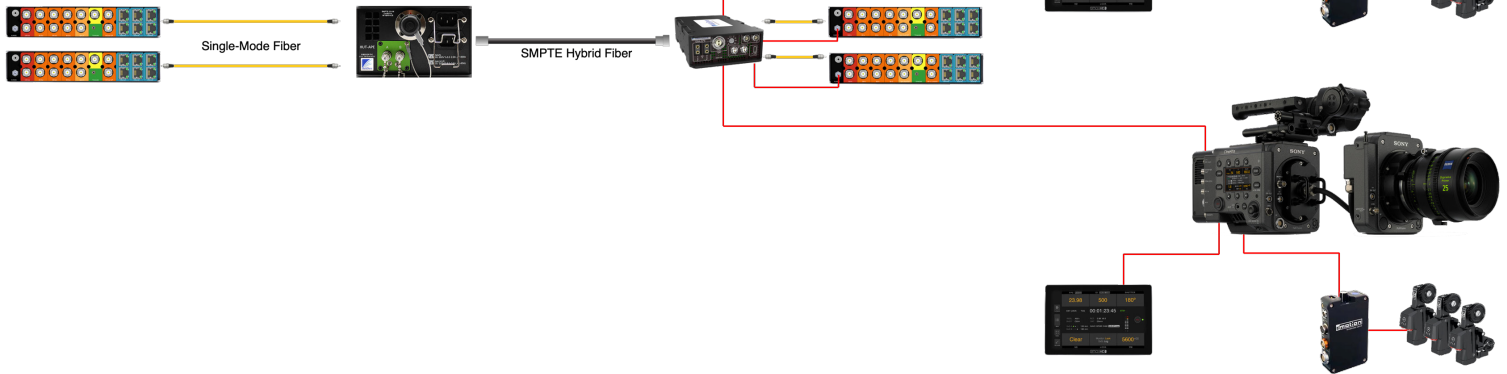

V6 6 Card Slot Chassis Example Shown in White

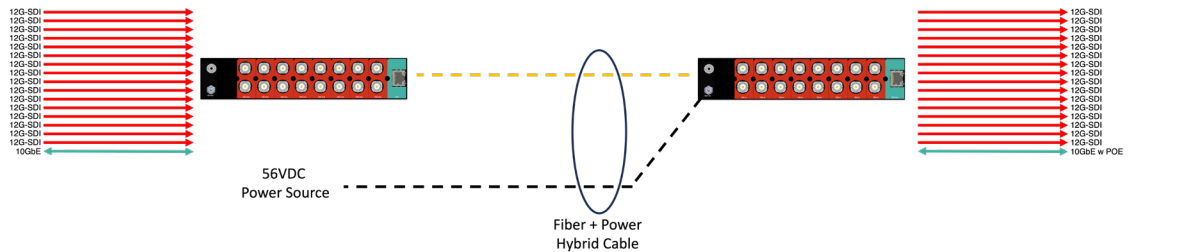### Now Available in White to Maintain Your Installation's Integrity

www.MultiDyne.com

APPLICATIONS

Remote Power Extension w/ Optical IO

VB + HUT-APE + QS4-APE

Single-Mode Fiber

SMPTE Hybrid Fiber

VB Low-Voltage

Structured / Hybrid / Composite Fiber w/ Power Cables

12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
10GbE

12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
12G-SDI
10GbE w POE

56VDC
Power Source

Fiber + Power
Hybrid Cable

openGear to VB Series – Display Walls

Machine Room

12G-SDI #1
12G-SDI #2
12G-SDI #3
12G-SDI #4
12G-SDI #5
12G-SDI #6
12G-SDI #7
12G-SDI #8
12G-SDI #9
12G-SDI #10

OGX-FR-CNS-P

openGear DashBoard

1x Single-Mode Fiber

ERPI

VB Series
VX4825-0X0-XXXX10BST

openGear
CROSS COMPATIBLE

10x HDMI 2.0

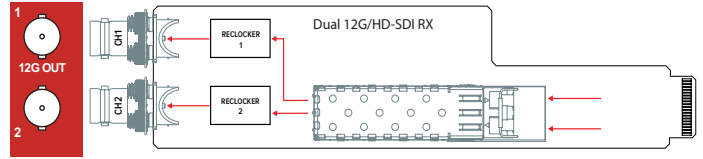| HDMI #1 | HDMI #2 |
HDMI #3	HDMI #4
HDMI #5	HDMI #6
HDMI #7	HDMI #8
HDMI #9	HDMI #10

10x 4K HDR Displays

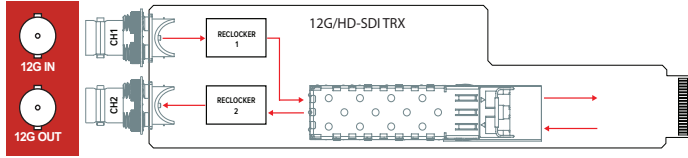**www.MultiDyne.com**
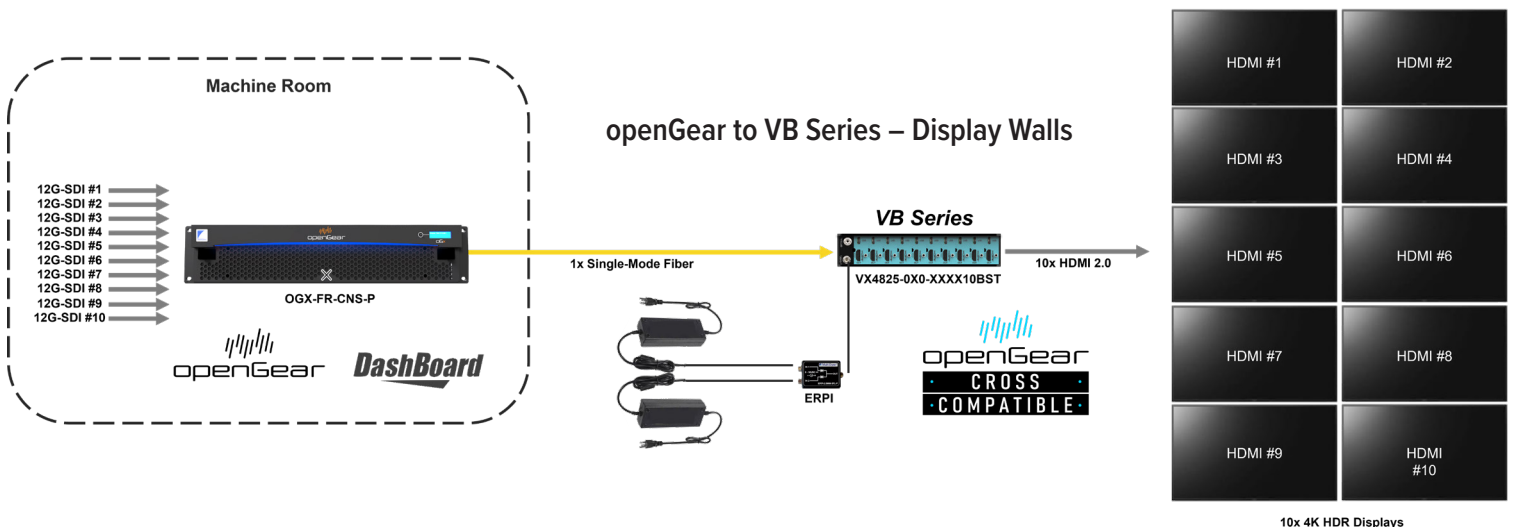
REAR MODULE DIAGRAMS

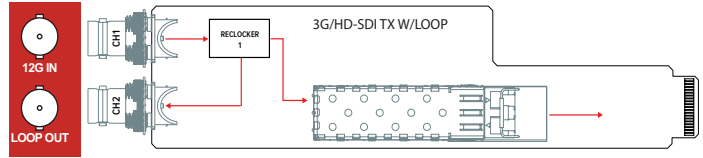## DUAL 12G-SDI VIDEO TRANSMITTER
2 SDI Inputs
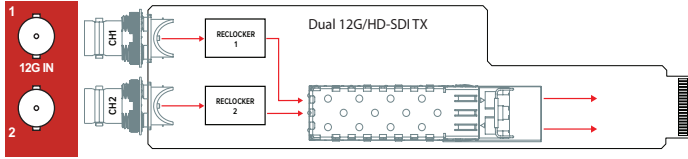
DUAL 12G-SDI VIDEO RECEIVER
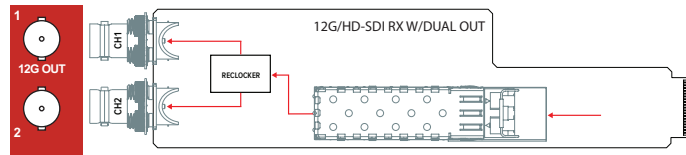*2 SDI Outputs*

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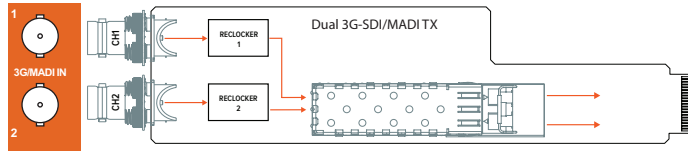*1 SDI Input, 1 SDI Output*

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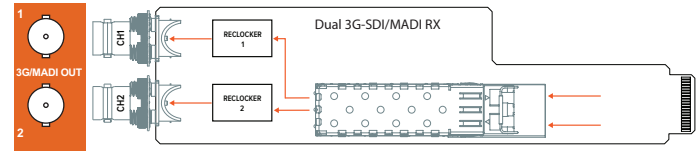*1 SDI Input with 1 BNC Loop Out*

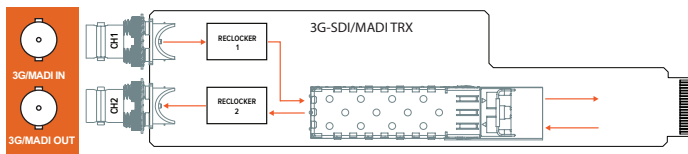## 12G-SDI VIDEO RECEIVER
2 SDI Outputs, same Signal

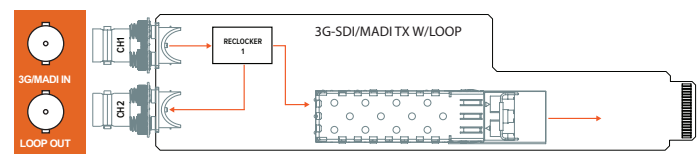## DUAL 3G-SDI/MADI TRANSMITTER
2 SDI Inputs

DUAL 3G-SDI/MADI RECEIVER
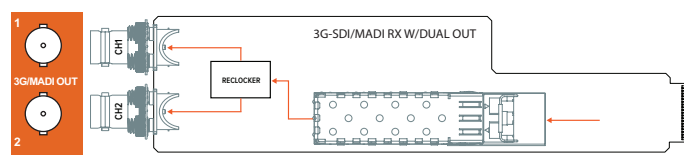*2 SDI Outputs*

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

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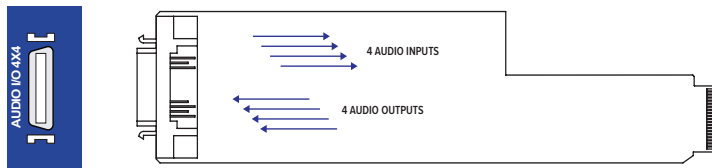
FEATURES (CONT.)

AES AUDIO TRANSCEIVER
2 AES Audio Inputs, 2 AES Audio Outputs

AUDIO I/O

2 AES INPUTS

2 AES OUTPUTS
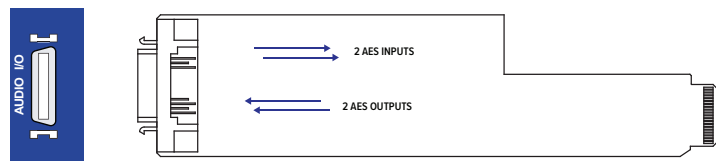
ANALOG AUDIO TRANSCEIVER
4 Analog Audio Inputs, 4 Analog Audio Outputs

AUDIO I/O 4X4

4 AUDIO INPUTS

4 AUDIO OUTPUTS

COMPOSITE VIDEO TRANSCEIVER
1 Analog Video Input, 1 Analog Video Output

CVBS IN

CVBS OUT

CH1

CH2

COMPOSITE VIDEO TX/RX
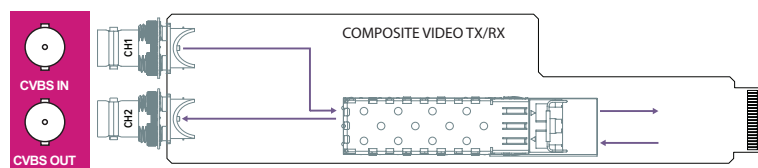
GENLOCK/SYNC
Tri-Level Sync/Genlock
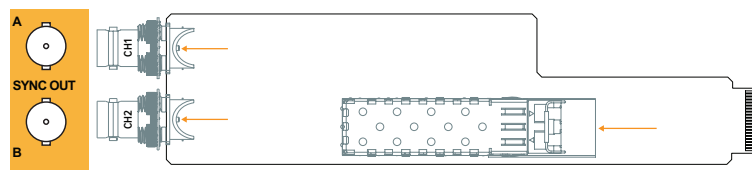
A

SYNC OUT

B

CH1

CH2

Explore the multitude of **VERSA|BRIX**

configurations using the config tool:

https://configurator.multidyne.com/launcher

MultiDyne®
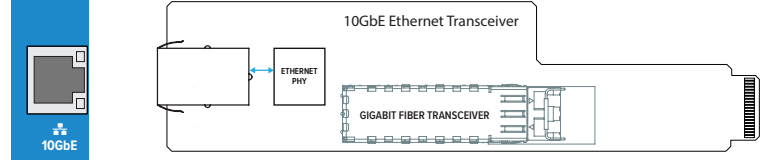Video & Fiber Optic Systems

FEATURES (CONT.)

1 GbE ETHERNET TRANSCEIVER
2 Port Ethernet hub/switch
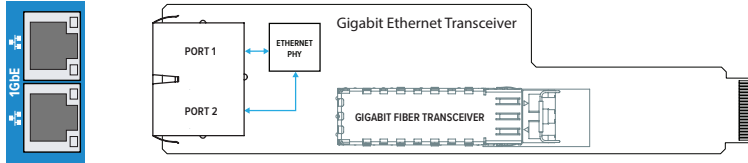
10 GbE ETHERNET TRANSCEIVER
1 Port Ethernet hub/switch

1 GbE PoE++ ETHERNET TRANSCEIVER
2 Port Ethernet hub/switch
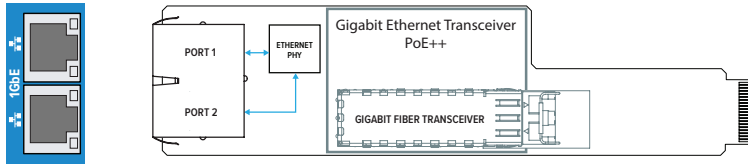
10 GbE PoE++ ETHERNET TRANSCEIVER
1 Port Ethernet hub/switch
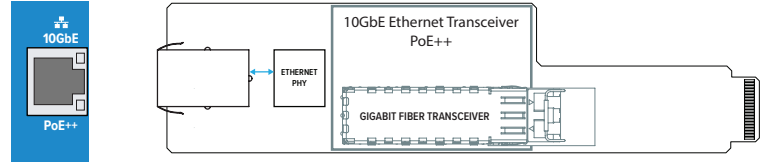
HDMI TRANSMITTER
HDMI-USB Port
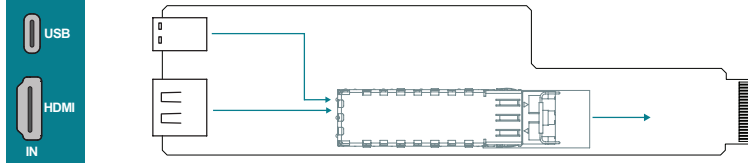
HDMI RECEIVER
HDMI-USB Port
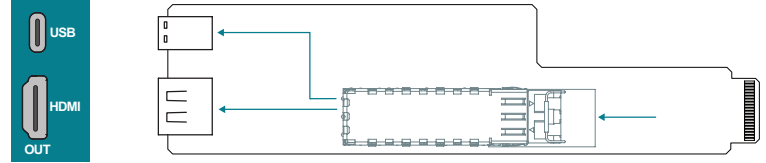
SERIAL DATA/TALLY/GPIO TRANSCEIVER
2 Bidirectional RS-232/RS-422/RS-485, 1 Bidirectonal Tally, 1 Bidirectional GPIO

POSITION	STATUS
SW1 OFF	CH1 RS232
SW1 ON	CH1 RS422/RS485
SW2 OFF	CH2 RS232
SW2 ON	CH2 RS422/RS485
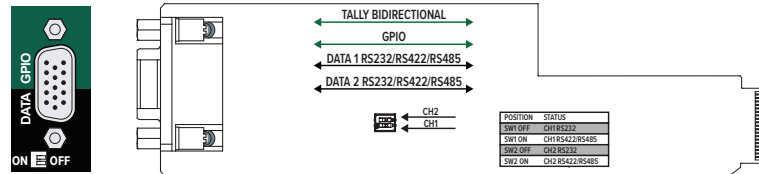
EXTERNAL POWER TAP (12V, 15W)
2.5mm Barrel

EXTERNAL POWER TAP (12V, 15W)
D-TAP

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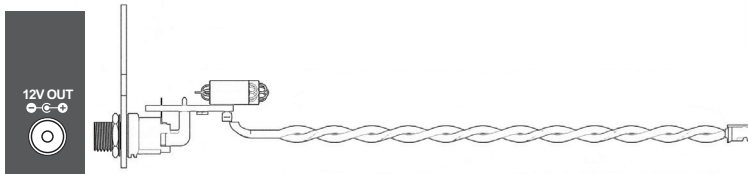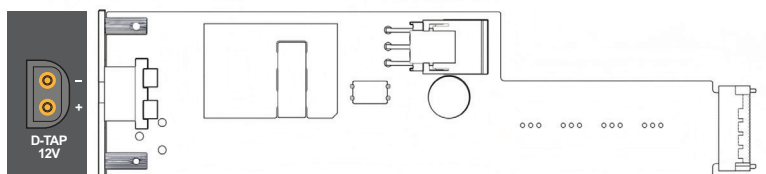
ACCESSORIES

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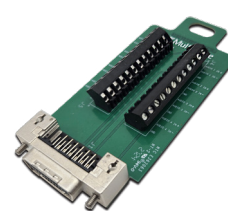
12V MULTIDYNE POWER SUPPLY FOR VB SERIES PRODUCTS
6' US Power Line Cord

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

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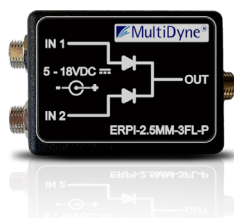
MOUNTING ACCESSORIES

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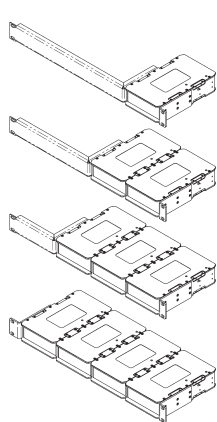
V4 Configurations
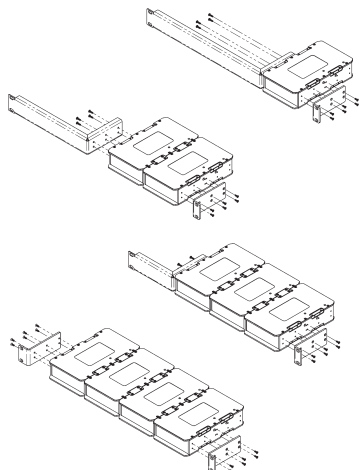
Assembly Details

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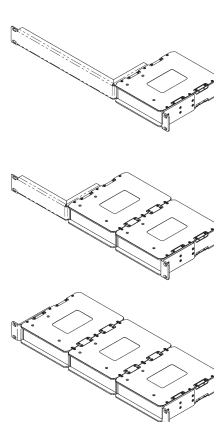
V6 Configurations
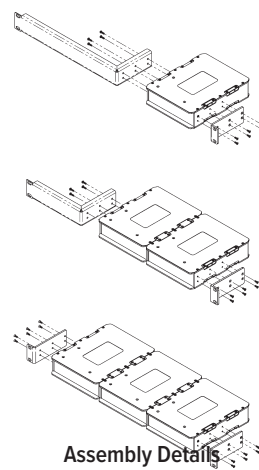
Assembly Details

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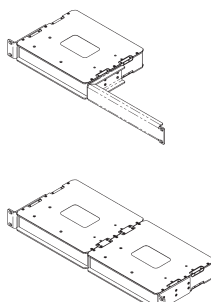
VX Configurations

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

VX Configuration Shown

QUICK RELEASE PTZ PLATE SYSTEM
Camera Mount For V4/V6/Vx Products

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.multidyne.com/launcher

V6 with V Mount Shown

V6 with Gold Mount Shown

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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)

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configurations using the config tool:

https://configurator.multidyne.com/launcher

VT 2 Card Slots

V4 4 Card Slots

V6 6 Card Slots

VX 10 Card Slots

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 Systems 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/