

FEATURES

- ▷ Build to your specification
- ▷ Video, Audio, Data & Ethernet Fiber transport
- ▷ Choose the signals you need, unit built to order
- ▷ Rugged 6 & 3 Card boxes
- ▷ One card DogBone

APPLICATIONS

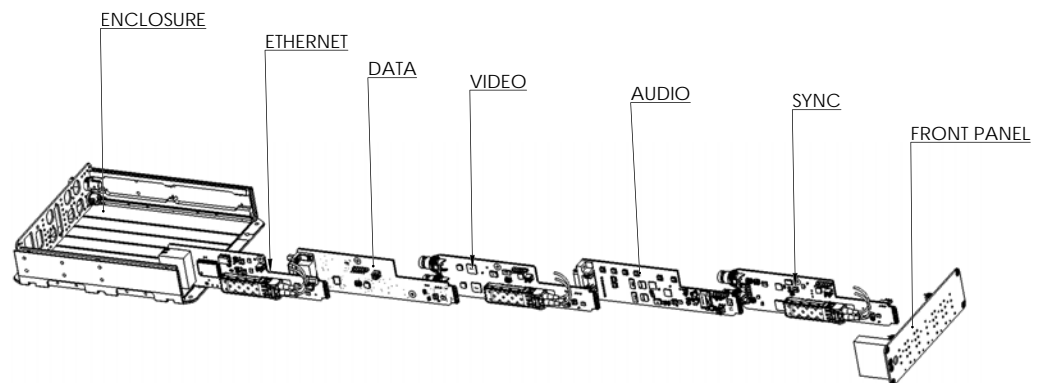
- ▷ PTZ/POVCAMERA CONTROL
- ▷ OB and Studio Links
- ▷ Intercom Extensions
- ▷ Long Distance Video, Audio, Data Transport



The VB Series, Build a Box provides a solution for any combinations of signal transport over fiber. With the VB-6, VB-3 and the DogBone, a unit can be created to your specification by populating the case with any compliment of VB-Cards. Each card's I/O can be sent or received over its own disparate fiber, or all signals in the box can be multiplexed onto just one fiber. Inherently portable,

each unit is ready for field applications or can be rack mounted with optional Rack Mount kits. The entire VB series is compatible with our openGear line. openGear is an industry standard, 2 RU card frame with DashBoard monitoring. This allows users to monitor the health of the entire system via computer.

TECHNICAL SPECIFICATIONS



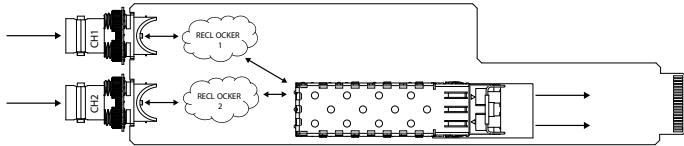
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Specifications subject to change without notice

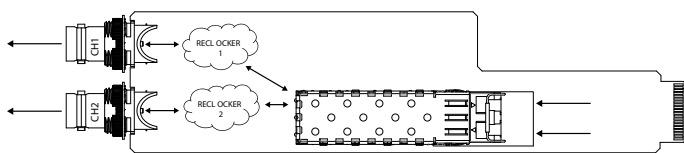
Made in USA

TECHNICAL SPECIFICATIONS

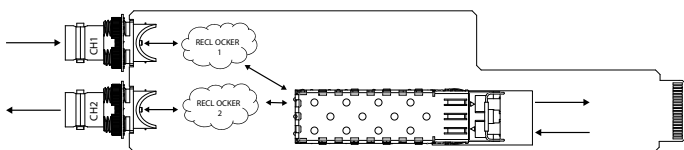
VBC-3G-2TX-XX
2 HDSDI Inputs



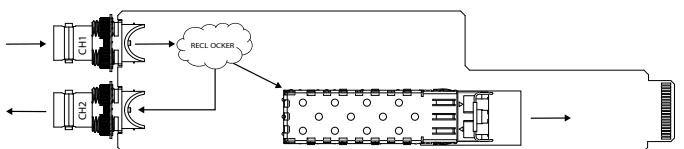
VBC-3G-2RX
2 HDSDI Outputs



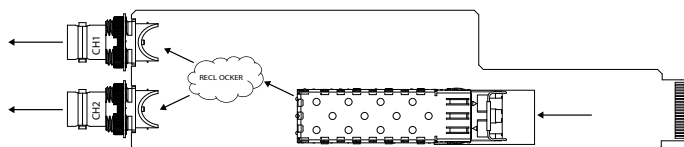
VBC-3G-TRX-XX
1 HDSDI Input, 1 HDSDI Output



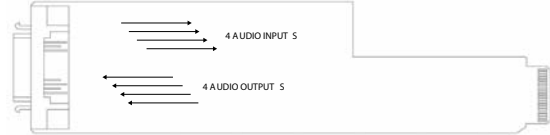
VBC-3G-1TX-XX
1 HDSDI Input, 1 BNC Loop Out



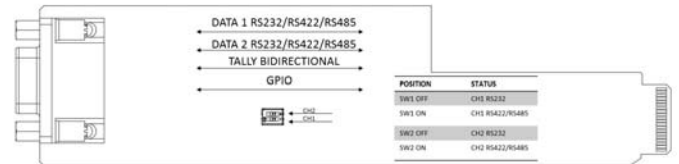
VBC-3G-1RX
2 HDSDI Outputs, same Signal



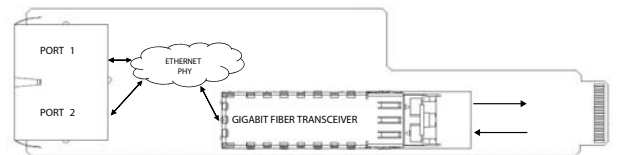
VBC-AUDIO-ANALOG
4 Analog Audio Inputs, 4 Analog Audio Outputs



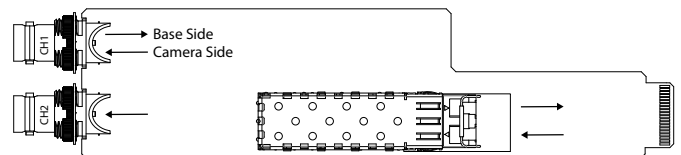
VBC-DTG
2 Bidirectional RS-232/RS-422/RS-485, 1 Bidirectional Tally, 1 Bidirectional GPIO



VBC-GE-XX
2 Port Ethernet hub/switch



VBC-GL-XX
Genlock/Sync



Replace "XX" with CWDM wavelength if applicable (i.e. "47" for 1471 nm)

Digital Video Interface SMPTE 259M, 344M, 292M, 424M, SMPTE ST-2081, SMPTE ST-2082, SMPTE ST-2083
Input Coax EQ
75m 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 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 to 3 GHz
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 28 dBu
Impedance In (bal) 600 Ohms +
Impedance Out (bal) <10 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
Mechanical, Environmental
DogBone
Dimensions (LxWxH): 7.25"x1.5"x1.75"
VB-3
Dimensions (LxWxH): 7.25"x2.87"x1.75"
VB-6
Dimensions (LxWxH): 7.25"x5.75"x1.75"

CONNECTOR
Video connectors: BNC
SYNC and TIMECODE: BNC
Audio connector: MDR26-F
Data connector: HD15-F
Ethernet: Dual portRJ45

Temperature Range -25° to +55°C
Humidity Range 0 to 95% RH
Noncondensing
Power Input 2.5mm jack Center pin

POWER RATING
Video card max power: 2.12W
Ethernet card: 1.97W
SYNC card: 2.5W
Data card: 0.6 W
Audio card: 1.3W