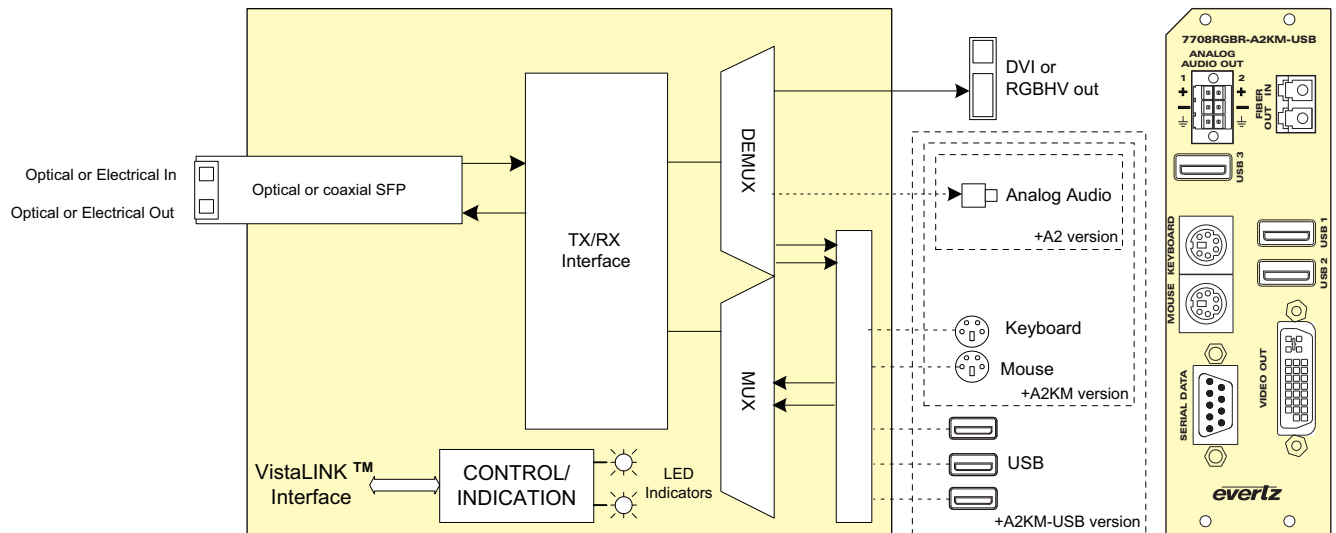# 7708RGBR/DVIR
RGBHV / DVI / KVM Receiver

The 7708RGBR and 7708DVIR are VistaLINK® SNMP capable RGBHV/DVI/ KVM receivers for high resolution/high quality RGB and DVI video signals. Single card receiver module accepts an input from the companion 7708RGBT/ DVIT RGHV/DVI/KVM Transmitters and outputs both analog or and digital DVI video. The 7708RGBR is also available with analog audio, keyboard + mouse, serial and USB 2.0 options. SFP modules available in both optical or COAX options. (See ordering options)

The 7708RGBR/DVIR occupies one card slot (two card slots for the A2KM and A2KM-USB versions) and can be housed in a 1RU frame, which will hold up to three modules. It can also be housed in a 3RU frame that will hold up to 15 modules (seven for A2KM and A2KM-USB versions), or a 350FR portable frame, which will hold up to seven modules (three for A2KM and A2KM-USB versions). See the physical specifications for the slot count.

The 7708DVIR provides the same features listed above as the 7708RGBR, however it only supports a digital (DVI) output.

▶Features & Benefits

- Supports DVI or RGBHV transport over a single fiber/coax
- Provides both RGBHV and DVI outputs simultaneously
- 3G router compatible for KVMX applications
- VESA video resolutions supported up to WUXGA
- Full 24 bits per pixel color resolution
- Ideal for use with high resolution LCD, plasma, and projection screens
- Superior digital data transmission
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR portable frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame

- Fully hot-swappable from front of frame with no fiber or electrical disconnect/ re-connect required
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- Accepts any wavelength in the 1270nm to 1610nm range
- Optional 2 channel stereo analog audio
- Optional keyboard, mouse and serial
- Optional USB 2.0 interface
- Optional electrical SFP modules (+DIN)

▶Specifications

Video Output:

Standards:	RGBHV and DVI 1.0, VESA
Number of Outputs:	1
Connectors:	28-pin DVI with Analog
Video Resolution:	Up to WUXGA (1920x1200) at 75Hz
Video Bandwidth:	500MHz
Color Resolution:	24 bits
Analog Output Level:	1.4V p-p (maximum)
Analog Output Impedance:	75Ω
Signal/Noise Ratio:	>55dB

Analog Audio Output (A2, A2KM & A2KM-USB versions):

Number of Outputs:	2
Type:	Balanced analog audio
Connector:	12-pin removable terminal block
Impedance	High Impedance (> 20kΩ)
Frequency Response:	±0.1dB (20Hz to 20kHz)
THD:	< 0.005% (20Hz to 20kHz)
Channel Phase Diff:	< ±1°
SNR:	> 85dB
Level:	-20dB to +3dB
Max. Output Level:	+24dBu into 10kΩ loads

Serial, Keyboard/Mouse, USB Input/Output (A2KM & A2KM USB versions):

Standards:	USB 2.0
Number:	
A2KM versions:	3
USB versions:	6
Connector:	2 PS2 for keyboard & mouse
	3 USB Type A, 1DB-9F serial

Optical Input:

Number of Inputs:	1 per SFP
Connector:	Female LC/UPC
Operating Wavelength:	1270nm-1610nm
Max Input Power:	-1dBm
Optical Sensitivity:	
Standard:	-21dBm

Optical Output:

Number of Outputs:	1 per SFP
Connector:	Female LC/UPC
Wavelengths:	
Standard:	1310nm
CWDM:	1270nm - 1610nm
Output Power:	
1310nm:	-2dBm ±1dBm
CWDM:	+4dBm ±1.5dBm

Electrical Output:

Number of outputs:	1 per SFP
	(when fitted with +DIN option)
Connector:	DIN Type 1.0/2.3 connector (75Ω)

Electrical Input: (A2KM & A2KM-USB versions):

Number of inputs:	1 per SFP
	(when fitted with +DIN option)
Connector:	DIN Type 1.0/2.3 connector (75Ω)
Equalization:	Typical 100m @ 3Gb/s

Electrical:

Voltage:	+12V DC
Power:	13W (based on options)

Physical (number of slots):

Standard and A2 versions:	
	1
A2KM and USB versions:	
	2

Compliance:

Laser Safety:	Class 1 laser product
	Complies with 24 CFR 1040.10 and 1040.11
	IEC 60825-1
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC directive

The Complete Solution Provider

Ordering Information

7708RGBR	RGBHV/DVI Receiver, 3G router compatible, VistaLINK®, includes SFP Receiver (must specify SFP module for COAX)
7708RGBR-A2	RGBHV/DVI + 2 Analog Audio Receiver, 3G router compatible, VistaLINK®, includes SFP Receiver (must specify SFP module for COAX)
7708RGBR-A2KM	RGBHV/DVI + 2 Analog Audio + Bi-di Keyboard and Mouse Receiver, 3G router compatible, VistaLINK® (must specify SFP module)
7708RGBR-A2KM-USB	
	RGBHV/DVI + 2 Analog Audio + Bi-di Keyboard and Mouse + USB 2.0 Receiver, 3G router compatible, VistaLINK®, (must specify SFP module)
7708DVIR	DVI Receiver, 3G router compatible, VistaLINK®, includes SFP Receiver (must specify SFP module for COAX)
7708DVIR-A2	DVI + 2 Analog Audio Receiver, 3G router compatible, VistaLINK®, includes SFP Receiver (must specify SFP module for COAX)
7708DVIR-A2KM	DVI + 2 Analog Audio + Bi-di Keyboard and Mouse Receiver, 3G router compatible, VistaLINK®, (must specify SFP module)
7708DVIR-A2KM-USB	
	DVI + 2 Analog Audio + Bi-di Keyboard and Mouse + USB 2.0 Receiver, 3G router compatible, VistaLINK® (must specify SFP module)

Electrical Ordering Options

+DIN	SFP Transceiver, DIN Type, supports rates up to 3Gb/s

Optical Ordering Options (Only for A2KM and A2KM-USB)

+13	SFP Transceiver, 1310nm, standard sensitivity receiver, supports rates up to 3Gb/s
+Cxx	SFP Transceiver, CWDM, standard sensitivity receiver, supports rates up to 3Gb/s

Note: xx - 27 to 61 and 55= 1550nm laser

Ordering Options	Rear Plate and Fiber Connector must be specified at time of order (Eg: Model +SC +3RU)

Rear Plate Suffix

+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU rear plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Enclosures

350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules
7801FR	1RU Multiframe which holds up to 4 single or 2 dual slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure