

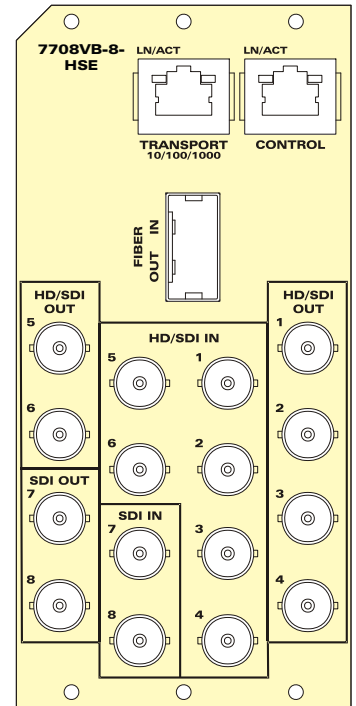
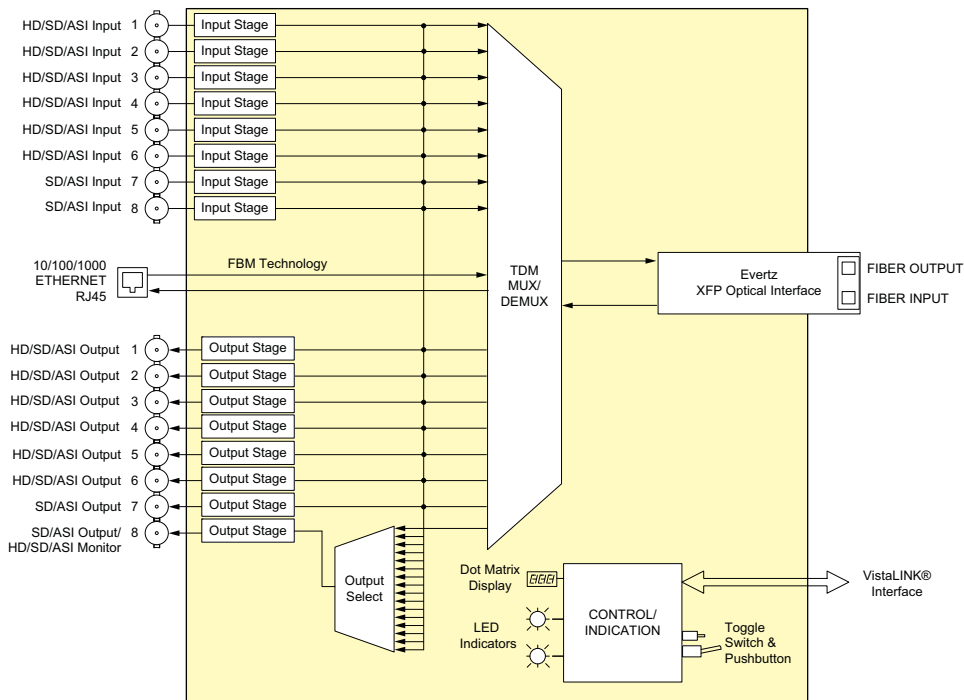
7708VB-8-HSE

8 Channel HD/SDI/DVB-ASI + Ethernet Fiber Transceiver



► Features & Benefits

- Single card TDM multiplexer for six bi-directional asynchronous HD-SDI, or eight bi-directional asynchronous SD-SDI, or DVB-ASI signals or any combination thereof with maximum total bandwidth of 9Gb/s
- Built-in Ethernet transceiver with one 10/100/1000 Base-T port with FBM (Fiber Bandwidth Management) technology
- Uncompressed, full-rate video transport
- Signal transport over fiber uninterrupted by loss of any input feed
- Transparently passes embedded AES or any other data in the horizontal or vertical ancillary data space
- Fully hot-swappable from front of frame
- Supports single-mode fiber optical cable
- Optical output wavelengths of 1310nm, 1550nm, and up to eight CWDM wavelengths (1470nm - 1610nm)
- DWDM wavelength (ITU-T G.694.1 compliant) support
- Pluggable Evertz XFP module permits wavelength swapping/sparing
- 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 frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Occupies three card slots and is housed in a 3RU frame that holds up to 5 modules or 350FR portable frame that holds up to 2 modules



► Specifications

Serial Video Input:

Standards: SMPTE ST 292-1, SMPTE ST 259-C, DVB-ASI, SMPTE 305M (SDTi)

Number of Inputs: 8

Connector: BNC per IEC 61169-8 Annex A

Equalization: Automatic to 70m @ 2.470Gb/s, 100m @ 1.485Gb/s, and 250m @ 270Mb/s with Belden 1694A or equivalent

Return Loss: > 15dB up to 1.5Gb/s

Serial Video Output:

Standards: SMPTE ST 292-1, SMPTE ST 259-C, DVB-ASI, SMPTE 305M (SDTi)

Number of Outputs: 8 (output #8 is selectable as an output or monitor port)

Connector: BNC per IEC 61169-8 Annex A

Signal Level: 800mV nominal

DC Offset: 0V ±0.5V

Rise and Fall Time: 900ps nominal @ 270Mb/s, <270PS @ 1.485G/bs

Overshoot: <10% of amplitude

Return Loss: >15dB to 1.5Gb/s

Alignment Jitter: <0.2 UI

Optical Output:

Number of Outputs: 1

Connector: Female LC Duplex

Fiber Size: 9µm core/125µm overall

Wavelength: Standard: 1310nm, 1550nm (nominal)
CWDM: 1470nm to 1610nm
DWDM: D200 to D590

Power: 1310nm: -6dBm to 1dBm
1550nm: -1dBm to +2dBm
CWDM: +1dBm to +4dBm
DWDM DFB: -1dBm to +2dBm

Optical Input:

Number of Inputs: 1

Connector: Female LC Duplex

Wavelength: 1270nm to 1610nm

Maximum Input Power:

Max Input Power: Standard: -1dBm
High Sensitivity: -7dBm

Optical Sensitivity: Standard: -14dBm
High Sensitivity: -22dBm

Electrical:

Voltage: +12V DC

Power: 20W

Physical (number of slots):

350FR: 3

7700FR-C: 3

7800FR: 3

Compliance:

Laser Safety: Complies with 24 CFR 1040.10 and 1040.11

EMI/RFI: Complies with FCC regulations for Class A devices
Complies with EU EMC directive

Ordering Information

7708VB-8-HSE+13S 8x HD/SDI/DVB-ASI + Ethernet Fiber Transceiver, Vistalink,
1310nm Standard Sensitivity XFP (10km)

For CWDM applications please refer to the end of the fiber section for details

7708VB-8-HSE+CxxS 8x HD/SDI/DVB-ASI + Ethernet Fiber Transceiver, Vistalink, CWDM
Standard Sensitivity XFP (40km)

7708VB-8-HSE+CxxH 8x HD/SDI/DVB-ASI + Ethernet Fiber Transceiver, Vistalink, CWDM
High Sensitivity XFP (70km)

For DWDM applications please refer to the end of the fiber section for details

7708VB-8-HSE+DxxxH 8x HD/SDI/DVB-ASI + Ethernet Fiber Transceiver, Vistalink,
DWDM High Sensitivity XFP (80km)

Rear Plate Suffix

+3RU

3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR
Multiframe

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

