TThe Evertz 3505FR-32-BNC4 is a high-capacity bulk optical conversion platform. With the ability to accommodate 32 Evertz 3405 series SFP's, up to 64 optical to electrical or electrical to optical conversions may be performed in a single frame. Occupying only 2RU of rack space, the 3505FR-32-BNC4 is the industry's highest density optical conversion platform making it ideal for space-limited applications. The 3505FR-32-BNC4 can accommodate any 3405 series SFP, allowing the SFP cages to be populated as needed with optical transmit, receive, regenerator or electrical distribution amplifier SFP's. The SFP positions are not limited by function - any combination of 3405SFP types may be used, making countless versatile combinations possible. Benefits of fiber optics for video transport include longer attainable distances, smaller/lighter cabling, reduced cable tray loads and electrical isolation. The 3505FR-32-BNC4 provides a low-overhead means for simple electrical/optical conversion for interfacility transport, as well as overcoming the limitations imposed by coaxial cable in intra-facility applications.

3405 series SFP's are able to handle ASI, SDI, HD-SDI and 3G digital video signals, as well as other signal rates up to 3 Gig on non-reclocked versions (e.g. MADI). The SFP modules are hot-swappable, allowing for quick servicing or easy reconfiguration or expansion at any time. 16 CWDM wavelengths are also available, which when combined with Evertz CWDM products allow up to 16 signals to be multiplexed on to a single fiber, greatly conserving fiber usage.

The 3505FR-32-BNC4 supports full remote monitoring and control over SNMP/ VistaLINK® when optional frame controllers are installed. The platform supports a single frame controller, or dual modules may be installed for redundancy. Numerous parameters such as optical power and electrical signal presence and rate can be accessed remotely to monitor system integrity. The 3505FR-32-BNC4 was designed to provide carrier-grade reliability with all SFP's, power supplies, frame controllers and the fan module being hot-swappable. There are no active components in the frame itself, a patent-pending feature from Evertz ensuring that the frame and coaxial cabling never need to be removed from the rack for service.

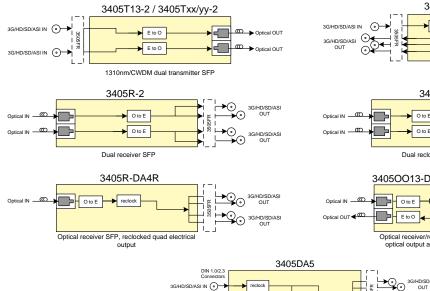


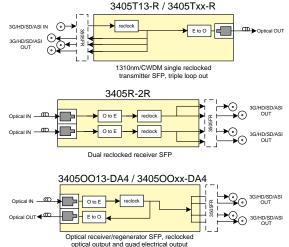


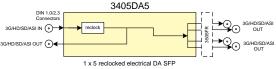
Features & Benefits

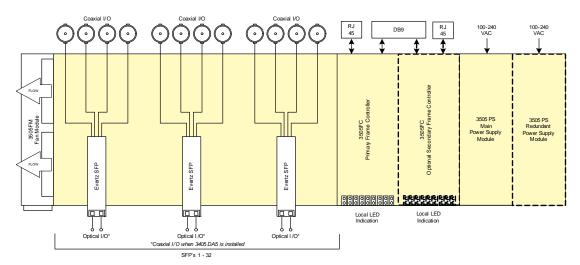
- Highest density in the industry up to 64 conversions in 2RU
- Any combination of 3405SFP types may be installed in any slots, including optical transmit, receive, regenerator and electrical distribution amplifiers
- All active components are hot-swappable
- SFP modules can be hot-swapped without de-cabling coaxial connections
- Temperature controlled fans to minimize audible noise

- Accommodates single or dual redundant frame controllers
- Accommodates redundant power supplies
- Quad electrical connectors per SFP facilitates extra electrical distribution
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK® when frame controller(s) are installed









Specifications (Note: Electrical input & output specs only apply to reclocking SFP modules)

System: Density:

Up to 64 EO, OE, or mixture of EO

and OE in a 2RU unit

Impedance:

Communication and Control:

RS-232 - single Female 9-pin D

connector

Ethernet: SNMP over IEEE 802.3/U (10/100 BaseTx) RJ45 connector for M&C

VistaLINK®/SNMP Control

Optical Output:

Number of Outputs: Up to 2 per SFP

Connector: LC/UPC

Optical Power:

Standard: -2dBm +/-1dBm -S (Short haul): -7dBm+/-1dBm CWDM: +3.5dBm +/-1dBm

Wavelength:

Standard & -S: 1270nm-1610nm CWDM:

ITU-T G.694.2 compliant

Optical Input:

Number of Inputs: Up to 2 per SFP LC/UPC Connector: 1270nm to 1610nm Operating Wavelength:

Maximum Input Power: Standard:

Optical Sensitivity:

-21dBm at 2.97Gb/s pathological Standard:

Level A -23dBm at 2.97Gb/s color

Electrical Inputs:

Return Loss:

SMPTE 424M (3 Gb/s), ST 292-1 Reclocked Standard:

(1.5Gb/s), SMPTE 259M (270Mb/s),

DVR-ASI

BNC Per IEC 61169-8 Annex A Connector: Equalization: Automatic to 80m @ 3 Gb/s 100m@

1.5Gb/s

250m @ 270Mb/s (with Belden 1694A or equivalent)

> 15dB up to 1.5GHz

3405Txx-R

3405DA5

> 10dB up to 3GHz

Electrical Outputs: Connector

750 (nominal) Impedance: 800mV (nominal) Signal Level DC Offset: 0V +/-0.5V Rise and Fall Time (Reclocked SFP's only):

HD/3G: <135ps SD: < 900ps Overshoot (Reclocked SFP's only):

< 10% of amplitude >15dB to 1.5GHz Return Loss: >10dB to 3GHz

Alignment Jitter(Reclocked SFP's only): < 0.2UI (Reclocked) to 1.485Gb/s

< 0.3UI (Reclocked) to 2.97Gb/s

BNC per IEC 61169-8 Annex A

Electrical:

Auto-ranging, 100-240VAC, 50/60Hz AC Input:

Power: 200W max Connector: IEC 320 - 1 per power supply

Physical:

3.5"H x 19"W x 5.5"D Dimensions: Module Capacity: 64 Evertz 3405 or 3505 SFP's

Ordering Information

3505FR-32-BNC4

High Density Fiber Optic SFP BNC Frame

*Note: SFP's sold separately, please specify at the time of ordering. Multimode applications require a 5dB optical attenuator at the output of all transmitting ports, except when "-S" short haul version transmitter SFP's are used.

Contact factory for all multimode applications

Ordering Options

+35PS Redundant power supply

Accessories

3505FC SNMP Frame Controller 3505FM Spare/replacement fan module

J/LC/LC/ATTEN-5DB 5dB optical attenuator. Required for multimode applications 3505PS Spare/replacement power supply module

Evertz SFP modules

3405T13-2 3405T13-2-S 3405Txx/yy-2

3405T13-R

3G/HD/SD dual 1310nm SFP transmitter, non-reclocking 3G/HD/SD dual 1310nm SFP transmitter, non-reclocking, short-haul 3G/HD/SD dual CWDM SFP transmitter, non-reclocking

3G/HD/SD reclocked 1310nm SFP transmitter, reclocked electrical loop output

3405T13-R-S 3G/HD/SD 1310nm reclocked SFP transmitter, short-haul, reclocked

electrical loop output

3G/HD/SD reclocked CWDM SFP transmitter, reclocked electrical

loop out

3405R-2 3G/HD/SD dual SFP receiver, non-reclocking

3405R-2R 3405R-DA4R 3G/HD/SD dual SFP receiver, reclocked outputs 3G/HD/SD single reclocked SFP receiver 3405OO13-DA4

3G/HD/SD reclocked SFP receiver/regenerator, reclocked 1310nm optical loop output and reclocked electrical outputs 3G/HD/SD reclocked SFP receiver/regenerator, reclocked CWDM 340500xx-DA4

optical loop output and reclocked electrical outputs 3G/HD/SD distribution amplifier, reclocked

Note: xx versions include the following, 27,29,31,33,35,37,43,45,47,49,51,53,55,57,59,61 Note: xx/yy versions include the following:

27/29, 31/33, 35/37, 43/45 - Low Band 47/49, 51/53, 55/57, 59/61 - High Band