

3405FR-XLINK

XLINK Fiber Optic SFP Frame



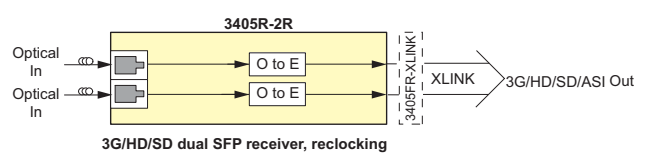
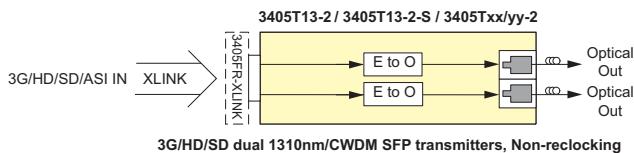
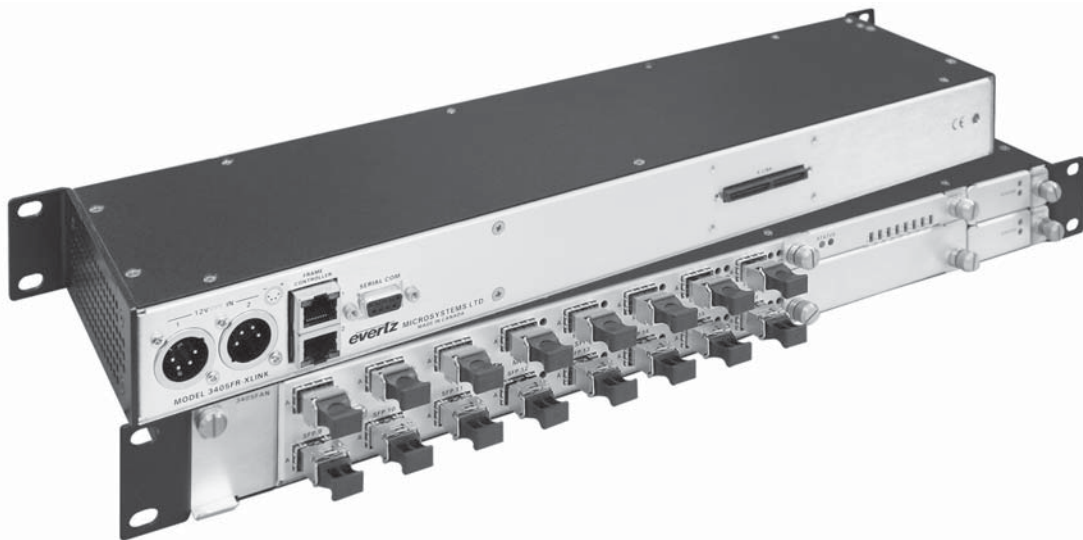
The Evertz 3405FR-XLINK is a high-capacity bulk optical conversion platform. With the ability to accommodate 16 Evertz 3405 series SFP's, up to 32 optical to electrical or electrical to optical conversions may be performed in a single frame. Occupying only 1RU of rack space, the 3405FR-XLINK is ideal for space-limited applications. The 3405FR-XLINK has the capacity to extend one 32-channel X-LINK cable over fiber. The SFP cages may be populated as needed with Evertz 3405 series dual optical transmit or receive SFP's. Benefits of fiber optics for video transport include longer attainable distances, smaller/lighter cabling, reduced cable tray loads and electrical isolation. The 3405FR-XLINK 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. 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 3405FR-XLINK 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 3405FR-XLINK 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.

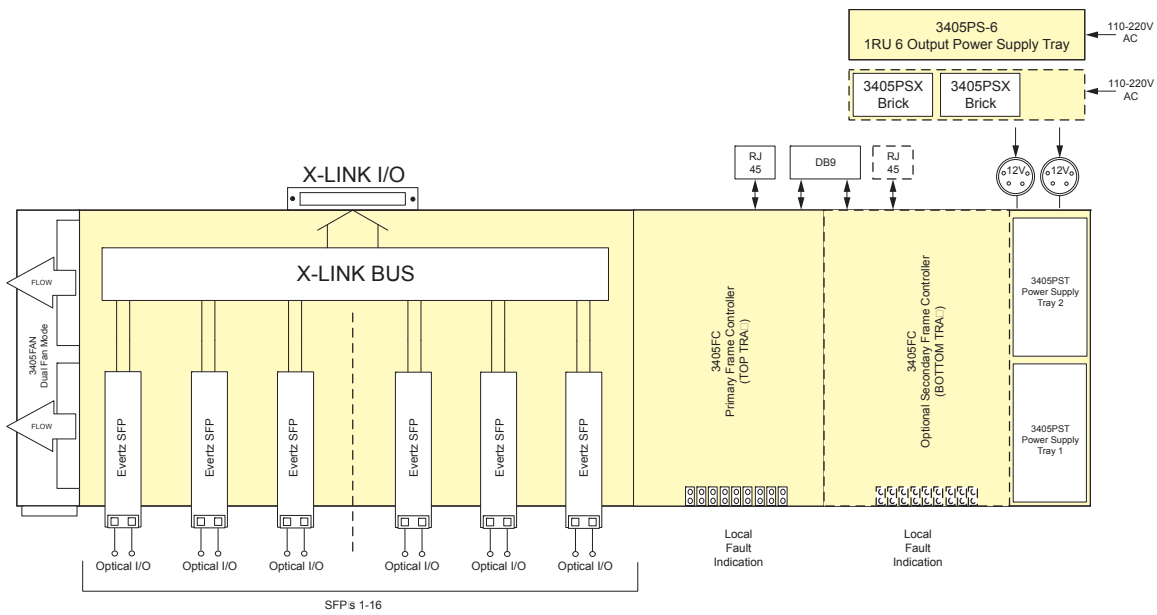
Features & Benefits

- High density – up to 32 conversions in 1RU
- Slots are agnostic to signal direction – 3405 transmit or receiver SFP types may be installed in any slots
- All active components are hot-swappable
- SFP modules can be hot-swapped without de-cabling coaxial connections
- Accommodates single or dual redundant frame controllers
- Accommodates redundant power supplies
- Comprehensive signal and SFP status monitoring remotely through SNMP and VistaLINK® when frame controller(s) are installed
- Power options include discrete external supplies, or the 3405PS-6 which may be used to power up to six 3405FR units with redundancy
- Optional integrated CWDM module does not require additional rack space and may be used to condense up to 32 signals on to two fiber strands



The Complete Solution Provider





SFP s 1-16

Specifications

| | | | | |
|-----------------------------------|---|--|---|---|
| System: | | Operating Temperature: | Compliance: | |
| Density: | Up to 32 EO, OE, or mixture of EO and OE to X-LINK conversion in a 1RU unit | 0-50°C (with 3405FAN installed) 0-30°C (with 3405FAN-Q installed) | Safety: | CSA Listed, Complies with EU Safety Directive |
| Impedance: | 75Ω | Electrical: | EMC: | Complies with FCC part 15, Class A Complies with EU EMC Directives |
| Connector: | XLINK | | Power Supply Configuration: | |
| Communication and Control: | | Dual external supplies (primary/secondary 3405PSX) 1RU Power Supply Tray (3405PS-6) | 3405PSX External Power Supply Brick: | |
| Serial: | RS-232 - single Female 9-pin D connector | Voltage: DC Input 12V DC (external power supplies required for 110-220V) | AC Mains Input: | Auto ranging, 100 - 240 VAC, 50/60 Hz |
| Ethernet: | SNMP over IEEE 802.3/U (10/100 BaseTx) RJ45 connector | | Max Power Consumption: | Number of Outputs: |
| Control: | VistaLINK® | 40W (fully loaded frame with all accessories) Note - power consumption dependent on SFP type | Output Voltage: | 12V DC |
| Physical: | | | Output Connector: | 4 PIN XLR |
| Dimensions: | 1.8"H x 19"W x 4.16"D | | Max Power: | |
| Module Capacity: | 16 Evertz® SFP modules. Dual TX or Dual RX | | Dissipation: | 120 W |
| | | | Status Indicators: | Green OK LED |

Ordering Information

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|---------------------|---|
| 3405FR-XLINK | X-LINK Fiber Optic SFP frame (does not include power supplies, SFPs, or frame controllers) |
|---------------------|---|

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.

Ordering Options (Note: order on of the power supply options from below)

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|---------------|---------------------------------|
| +Q | 3405FAN-Q Dual quiet fan option |
| +PSX | Single power supply brick |
| +PSX-2 | Dual (redundant) power supply |

Power Supplies

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|-----------------|--|
| 3405PSX | External power supply brick (spare or replacement) |
| 3405PS-6 | 1RU 6 output power supply tray for 3405FR-XLINK (powers up to 6 units - primary & secondary) |

Accessories

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|------------------|----------------------------------|
| 3405FC | 3405 Frame controller |
| 3405FC-2 | Redundant Frame controller |
| 3405PST | Power supply tray |
| 3405FAN | 3405FR-XLINK dual FAN module |
| 3405FAN-Q | 3405FR-BNC dual quiet FAN module |

Evertz® SFP modules

- *Note:
- 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.
 - XX versions include the following: 27, 29, 31, 33, 35, 37, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, see CWDM wavelength ordering information
 - XX/YY versions include the following: 27/29, 31/33, 35/37, 43/45, 47/49, 51/53, 55/57, 59/61, see CWDM wavelength ordering information

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|-----------------------|--|
| 3405T13-2 | Dual channel SFP optical transmitter with standard 1310nm lasers, non-relocked. |
| 3405T13-2-S | Dual channel SFP optical transmitter with short-haul 1310nm lasers, non-relocked. |
| 3405TXX/YY-2 | Dual channel SFP optical transmitter with CWDM lasers (1270nm to 1610nm), non-relocked. |
| 3405T13-R | Single channel SFP optical transmitter with standard 1310nm laser, relocked. |
| 3405T13-R-S | Single channel SFP optical transmitter with short-haul 1310nm laser, relocked. |
| 3405TXX-R | Single channel SFP optical transmitter with CWDM laser (1270nm to 1610nm), relocked. |
| 3405R-2R | Dual channel SFP optical receiver, relocked. |
| 3405R-2 | Dual channel SFP optical receiver, non-relocked. |
| 3405R-DA4R | Single channel SFP optical receiver, relocked. |
| 3405R-DA4R-H | Single channel SFP optical high-sensitivity receiver, relocked. |
| 3405OO13-DA4 | Single channel SFP optical regenerator with standard 1310nm laser, relocked. |
| 3405OO13-DA4-H | Single channel SFP optical regenerator with standard 1310nm laser and high sensitivity receiver, relocked. |
| 3405OOXX-DA4 | Single channel SFP optical regenerator with CWDM laser (1270nm to 1610nm), relocked. |
| 3405OOXX-DA4-H | Single channel SFP optical regenerator with high sensitivity receiver and CWDM laser (1270nm to 1610nm), relocked. |

Fiber Optic Mux/Demux Modules (MTP to LC fanout cable included)

| | |
|-----------------------|---------------------------------------|
| 3405CWDM-2-M16 | Dual 16 Channel Mux, 1270nm to 1610nm |
| 3405CWDM-2-D16 | Dual Channel Demux. 1270nm to 1610nm |

Fanout Cables (spare or replacement)

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|---------------------------|---|
| CB-MTP40CM-LCPC-HB | MTP to LC/UPC fanout cable for HIGH band CWDM wavelengths, 1470nm to 1610nm |
| CB-MTP40CM-LCPC-LB | MTP to LC/UPC fanout cable for LOW band CWDM wavelengths, 1270nm to 1450nm |