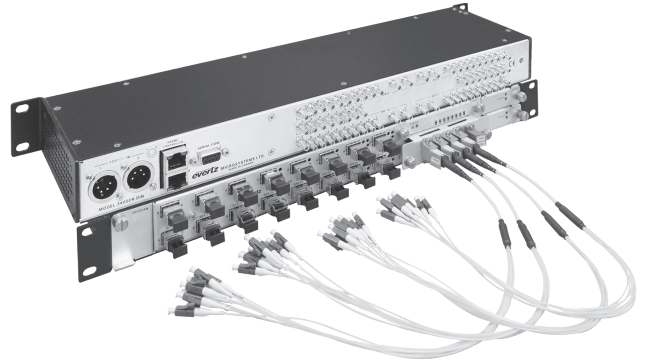


3405FR-DIN, 3405FR-DIN-48V

Fiber Optic SFP DIN Frame



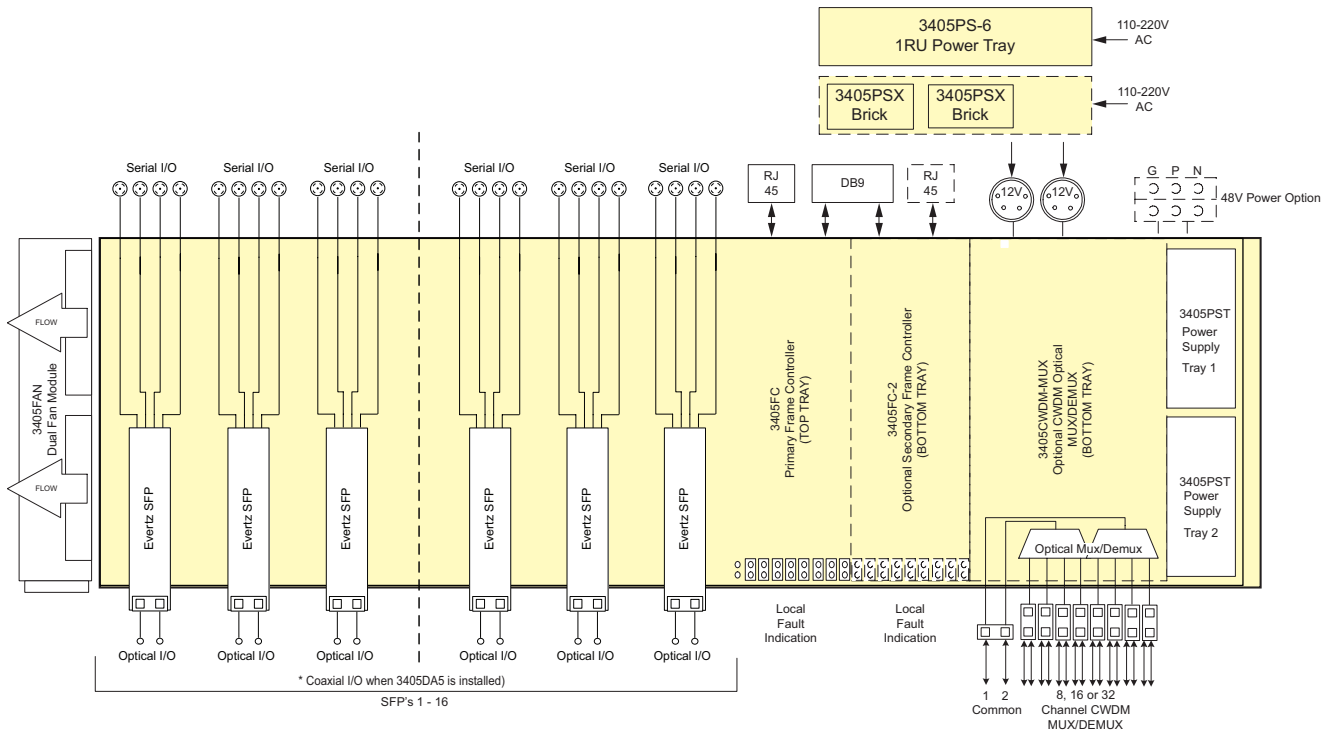
The Evertz 3405FR-DIN is a high-capacity bulk optical conversion platform. With the ability to accommodate 16x Evertz 3405 Series SFPs, up to 32x optical to electrical or electrical to optical conversions may be performed in a single frame. Occupying only 1RU of rack space, the 3405FR-DIN is ideal for space-limited applications. The 3405FR-DIN can accommodate any 3405 Series SFP, allowing the SFP cages to be populated as needed with optical transmit, receive, regenerator or electrical distribution amplifier SFPs. 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 3405FR-DIN 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 SFPs are able to handle ASI, SDI, HD-SDI and 3G digital video signals, as well as other signal rates up to 3GbE on non-relocked versions (e.g. MAD1). The SFP modules are hot-swappable, allowing for quick servicing or easy reconfiguration or expansion at any time. 16x CWDM wavelengths are also available, which when combined with Evertz CWDM products allow up to 16x signals to be multiplexed on to a single fiber, greatly conserving fiber usage.

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-DIN was designed to provide carrier-grade reliability with all SFPs, 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.

The 3405FR-DIN supports full remote monitoring and control over SNMP/ VistaLINK® when optional frame controllers are installed. The platform



**Note: Optional redundant frame controller (3405FC-2) cannot be used simultaneously with the 3405CWDM series units

The Complete Solution Provider





Specifications

<p>System: Density: 16 SFP's</p> <p>Communication and Control: Serial: RS-232 — single Female 9-pin D connector Ethernet: SNMP over IEEE 802.3/U (10/100 BaseTx) RJ-45 connector Control: VistaLINK®</p> <p>Electrical Inputs/Outputs: Return Loss: > 15dB up to 1.5GHz > 10dB up to 3GHz Impedance: 75Ω</p> <p>Physical: Dimensions: 1.8"H x 19"W x 4.16"D Module Capacity: 16 Evertz SFP modules Operating Temp.: 0–50°C (with 3405FAN installed) 0–30° C (with 3405FAN-Q installed)</p> <p>Electrical (12V DC Version) Power Supply Configuration: Dual External Supplies (primary/ secondary 3405PSX) or 1RU Power Supply Tray (3405PS-6)</p>	<p>Voltage: DC Input 12V DC (external power supplies required for 110–220V)</p> <p>Max. Power Consumption: 40W (fully loaded frame with all accessories) <i>Note: Power consumption dependent on SFP type</i></p> <p>Connectors: 4 Pin Male XLR (12V DC)</p> <p>Status Indicators: PST status LEDs (each per power supply tray)</p> <p>Electrical (48V DC Version): Power Supply Configuration: Dual Terminal Block Inputs (primary/secondary) Auto ranging 36 ↔ 72V DC</p> <p>Voltage: Auto ranging 36 ↔ 72V DC</p> <p>Maximum Power Consumption: 50W Typical (fully loaded frame with all accessories) <i>Note: Power consumption dependent on SFP type</i></p> <p>Connectors: 3 pin screw terminal strip 1 per power supply</p> <p>Status Indicators: PST status LEDs (each per power supply tray)</p>	<p>Compliance: Safety: CSA Listed, Complies with EU Safety Directive TUV Listed to CAN/CSA-C22.2 No. 62368-1:2014, ANSI/UL 62368-1:2014, EN 62368-1:2014+A11:2017, IEC 62368-1:2014</p> <p>EMC: Complies with FCC part 15, Class A, Complies with EU EMC Directives</p> <p>3405PSX External Power Supply Brick: AC Mains Input: Auto ranging, 100 – 240 VAC, 50/60 Hz</p> <p>Number of Outputs: 1 Output Voltage: 12VDC Output Connector: 4 PIN XLR Max. Power Dissipation: 120 W</p> <p>Status Indicators: Green OK LED</p>
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Ordering Information

3405FR-DIN	Fiber optic SFP frame with DIN type connectors (does not include frame controller or power supplies)
3405FR-DIN-48V	Fiber Optic SFP frame with DIN 1.0/2.3 Connectors, 48VDC power input (does not include SFPs, frame controllers, Mux/Demux modules or Mux/Demux fanout cables)

Note: SFP's sold separately, please specify at the time of ordering.

Ordering Options (Note: Order one of the power supply options from below)

+Q	Quiet fan option for 3405FR-BNC
+PSX	External power supply brick for 3405FR SFP frame <i>(does not apply to 3405FR-DIN-48V)</i>
+PSX-2	Dual external power supply brick for 3405FR SFP frame <i>(does not apply to 3405FR-DIN-48V)</i>
Power Supplies	
3405PSX	External power supply brick for 3405FR SFP frame
3405PS-6	1RU power supply tray for 3405FR SFP Frame (powers up to 6 units — primary & redundant)
Accessories	
3405FC	3405FR Frame Controller
3405FC-2	3405FR Redundant Frame Controller
3405PST	3405FR Frame power tray, 12V to 3.3V DC power converter
3405FAN	Dual fan module
3405FAN-Q	Dual quiet fan module
3405RB	Optional Recessed Brackets for 3405FR Series. Provides 5" Recessed Mounting From Front of Rack.

Evertz® SFP modules

The 3405FR-DIN frame is compatible with any 3405 series optical or coaxial SFP. For optical SFP options, please see the "3405 Optical SFP Series" data sheet, and for coaxial SFP options please see the "3405 Coaxial SFP Series" data sheet.

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

3405CWDM-M8	Single 8 channel CWDM Mux for 3405FR series, 1470nm to 1610nm, includes MTP to LC/UPC breakout cable
3405CWDM-D8	Single 8 channel CWDM Demux for 3405FR series, 1470nm to 1610nm, includes MTP to LC/UPC breakout cable
3405CWDM-M16	Single 16 channel CWDM Mux for 3405FR series frame, 1270nm to 1610 nm, includes MTP to LC/UPC breakout cable
3405CWDM-D16	Single 16 channel CWDM Demux for 3405FR series frame, 1270nm to 1610nm, includes MTP to LC/UPC breakout cable
3405CWDM-2-M8	Dual 8 channel CWDM Mux for 3405FR series frame, 1470nm to 1610nm, includes MTP to LC/UPC breakout cable
3405CWDM-2-D8	Dual 8 channel CWDM Demux for 3405FR series frame, 1470nm to 1610nm, includes MTP to LC/UPC breakout cable
3405CWDM-2-M16	Dual 16 Channel CWDM Mux, 1270nm to 1610nm, includes MTP to LC/UPC breakout cable (used with 3405FR)
3405CWDM-2-D16	Dual 16 Channel CWDM Demux, 1270nm to 1610nm, includes MTP to LC/UPC breakout cable (used with 3405FR)

Fanout Cables (spare or replacement)

CB-MTP40CM-LCPC-HB	MTP to LC Fanout Cable for Hi band CWDM wavelengths: 1470nm to 1610nm
CB-MTP40CM-LCPC-LB	MTP to LC Fanout Cable for Low band CWDM wavelengths: 1270nm to 1450nm