

3405FRM-BNC, 3405FFRM-DIN

Miniature Fiber Optic SFP BNC/DIN Frame

The Evertz® 3405FRM series Miniature SFP frames, consisting of the 3405FRM-BNC and 3405FRM-DIN, is the ideal solution for today's low cost, high density fiber optic distribution needs. The 3405FRM provides the flexibility to handle the high-speed requirements of 3G and HDTV as well as SD-SDI, SDTi, and DVB-ASI.

The 3405FRM is designed on a standalone frame to house 1 hot swappable Evertz® 3405 SFP module. This provides up to 2 EO or 2 OE in a standalone frame. The flexibility of the 3405FRM frame allows the use of any of the Evertz® 3405 SFP modules. See SFP options below.

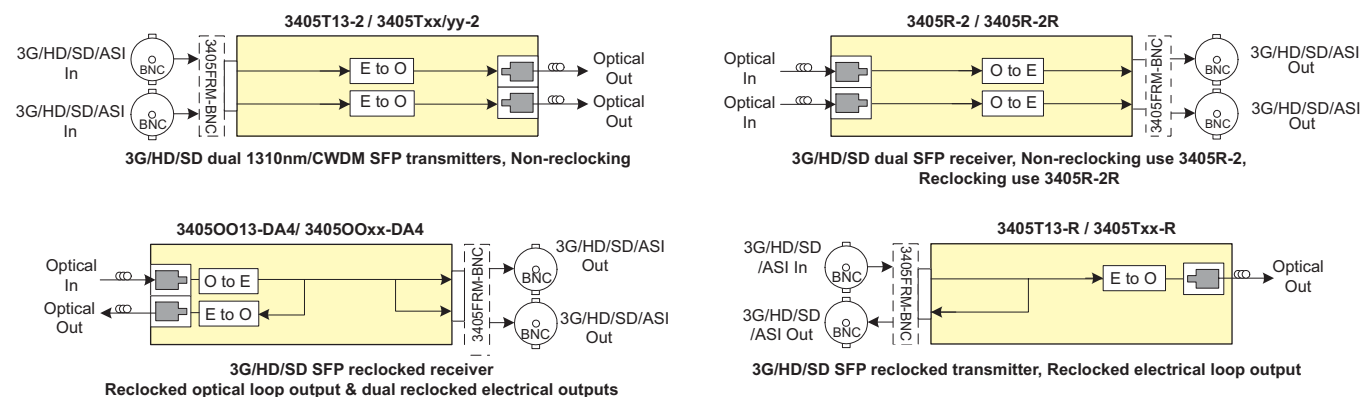
The 3405FRM frame comes with a primary external power supply module.



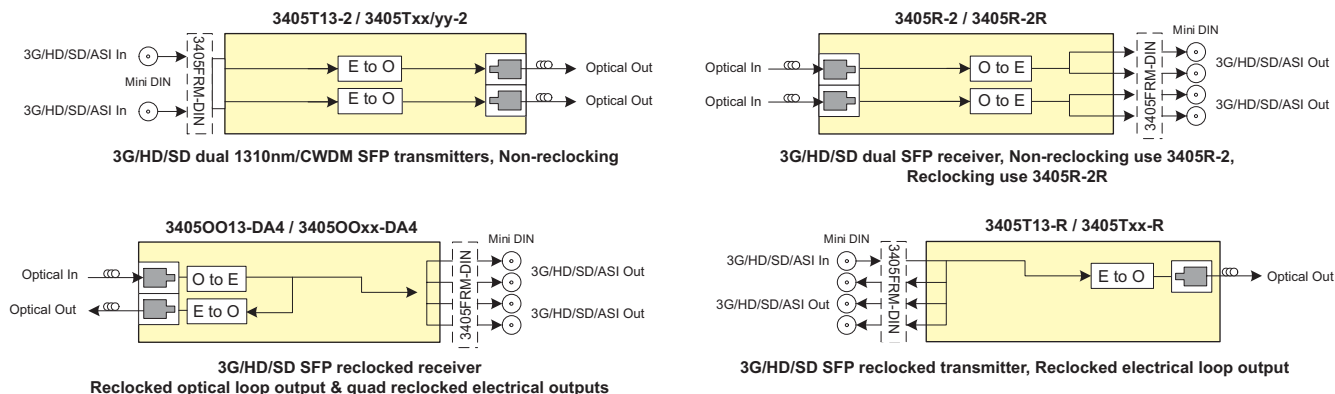
► Features & Benefits

- Available in BNC (3405FRM-BNC) and DIN (3405FRM-DIN) versions
- Single Power supply
- Houses 1 front loading Evertz SFP modules
- 2 Input/Output BNCs on the rear of 3405FRM-BNC unit for electrical connections
- 2 Input/4 Output DINs on the rear of 3405FRM-DIN unit for electrical connections
- SFP slot can be used as an input or an output based on SFP type
- No electrical re-cabling required when hot swapping SFP modules

► 3405FRM-BNC SFP Options

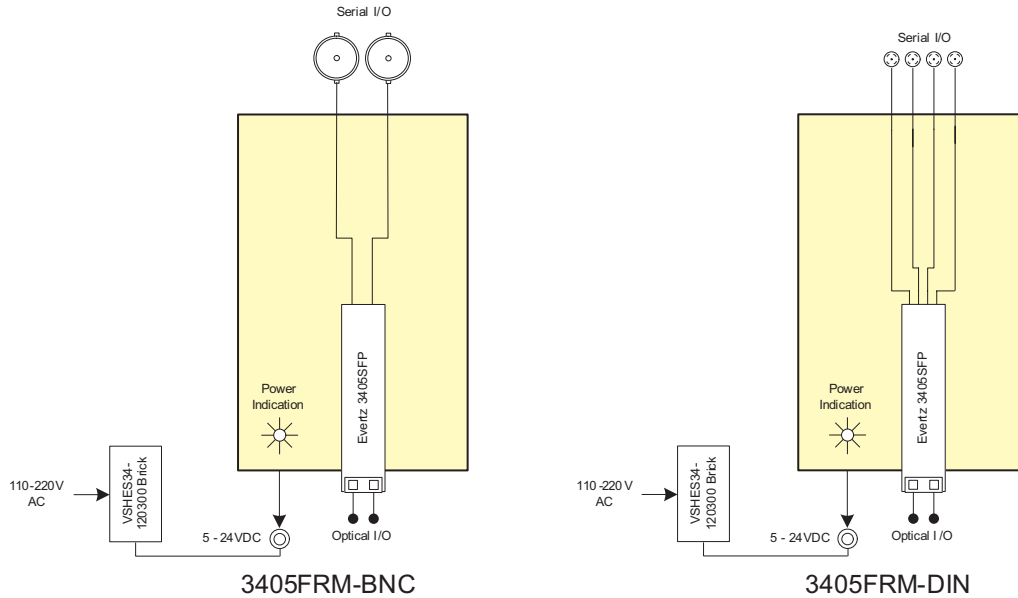


► 3405FRM-DIN SFP Options



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► Specifications NOTE: Electrical input & output specs only apply to reclocking SFP modules (3405T13-R, 3405Tx-R, 3405OO13-DA4, 3405OOxx-DA4 and 3405R-2R)

System: Density: Up to 2 EO or OE in a miniature frame Impedance: 75Ω Connector: 3405FRM-BNC: BNC per IEC 61169-8 Annex A 3405FRM-DIN: 1.0/2.3 Female connector		Connector: Power: Coaxial power connector Status Indicators: PSU status LEDs Fuses: 0.5 amp, time delay	
Optical Output: Number of Outputs: Up to 2 per SFP Connector: LC/UPC Rise/Fall Time: < 270ps Optical Power: Standard: -1dBm ±1dBm CWDM: +1dBm ±1dBm Wavelength: Standard: 1310nm CWDM: 1270nm-1610nm ITU-T G.694.2 compliant		Physical: Dimensions: 1.03"H x 1.43"W x 2.37"D Module Capacity: 1 Evertz® SFP modules. Dual TX or Dual RX Operating Temp: 0-40°C	
Optical Input: Number of Inputs: Up to 2 per SFP Connector: LC/UPC Operating Wavelength: 1270nm to 1610nm Maximum Input Power: Standard: -1dBm Optical Sensitivity: Standard: -21dBm at 2.97Gb/s pathological Level A -23dBm at 2.97Gb/s color bars		Electrical: Power Supply Configuration: Single external supply (VSHES34-120300) Voltage: DC Input 12V DC (external power supplies required for 110-220V) Max Power Consumption: 2W (fully loaded frame) Note - power consumption dependent on SFP type	
Electrical Inputs: Reclocked Standard: SMPTE 424M (3 Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), DVB-ASI		Compliance: Safety: CSA Listed, Complies with EU Safety Directive EMC: Complies with FCC part 15, Class A Complies with EU EMC Directives	
Electrical Outputs: Connector: 3405FRM-BNC: BNC per IEC 61169-8 Annex A 3405FRM-DIN: 1.0/2.3 Female connector Impedance: 75Ω (nominal) Signal Level: 800mV (nominal) DC Offset: 0V +/-0.5V Rise and Fall Time: < 135ps (HD/3G) < 900ps (SD) Overshoot: < 10% of amplitude Return Loss: > 15dB to 1.5GHz > 10dB to 3GHz Alignment Jitter: < 0.2UI (Reclocked) to 1.485Gb/s < 0.3UI (Reclocked) to 2.97Gb/s		VSHES34-120300 External Power Supply Brick: AC Mains Input: Auto ranging, 100 <-> 240V AC, 50/60 Hz Number of Outputs: 1 Output Voltage: 12V DC Output Connector: Coaxial power connector Maximum Power Dissipation: Dissipation: 36 W Status Indicators: Green OK LED	

► Ordering Information

3405FRM-BNC	Miniature Fiber Optic SFP BNC frame (does not include SFP's)
3405FRM-DIN	Miniature Fiber Optic SFP DIN frame (does not include SFP's)

Evertz SFP modules:

3405T13-2	3G/HD/SD dual 1310nm SFP transmitters. Non-reclocking
3405Tx/yy-2	3G/HD/SD dual CWDM SFP transmitters. Non-reclocking
3405R-2	3G/HD/SD dual SFP receiver. Non-reclocking
3405R-2R	3G/HD/SD dual SFP receiver. Reclocked electrical outputs
3405T13-R	3G/HD/SD Reclocked 1310nm SFP transmitter. Reclocked electrical loop output.
3405Tx-R	3G/HD/SD Reclocked CWDM SFP transmitter. Reclocked electrical loop output.
3405OO13-DA4	3G/HD/SD Reclocked SFP receiver. Reclocked 1310nm optical loop output and reclocked electrical outputs.
3405OOxx-DA4	3G/HD/SD Reclocked SFP receiver. Reclocked CWDM optical loop output and reclocked electrical outputs.

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

Note: xx versions include the following:

27, 29, 31, 33, 35, 37, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61