

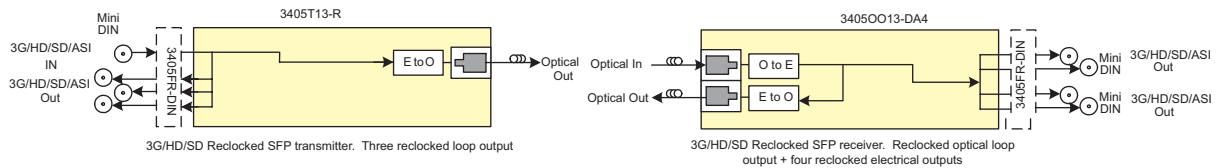
3405FR-DIN

Fiber Optic SFP DIN Frame

3405FR-DIN



SFP Options



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

All components are hot swappable through the front of the frame including SFPs, frame controllers and power converters. This ensures the unit can be fully serviceable in the field without having to be de-cabled or removed from the customer's rack.

The 3405FR-DIN is a 1RU frame designed to house up to 16 Evertz® SFP modules. This provides up to 16EO or 16OE in a single rack unit of space. The frame can be configured for a mixture of modules. See SFP options above.

The 3405FR-DIN can be powered by external power bricks or with the 3405PS-6. The 3405PS-6 can power up to 6 x 3405FR-DIN frames with primary & secondary power.

The 3405FR-DIN is VistaLINK® -capable with support for primary and secondary frame controller.

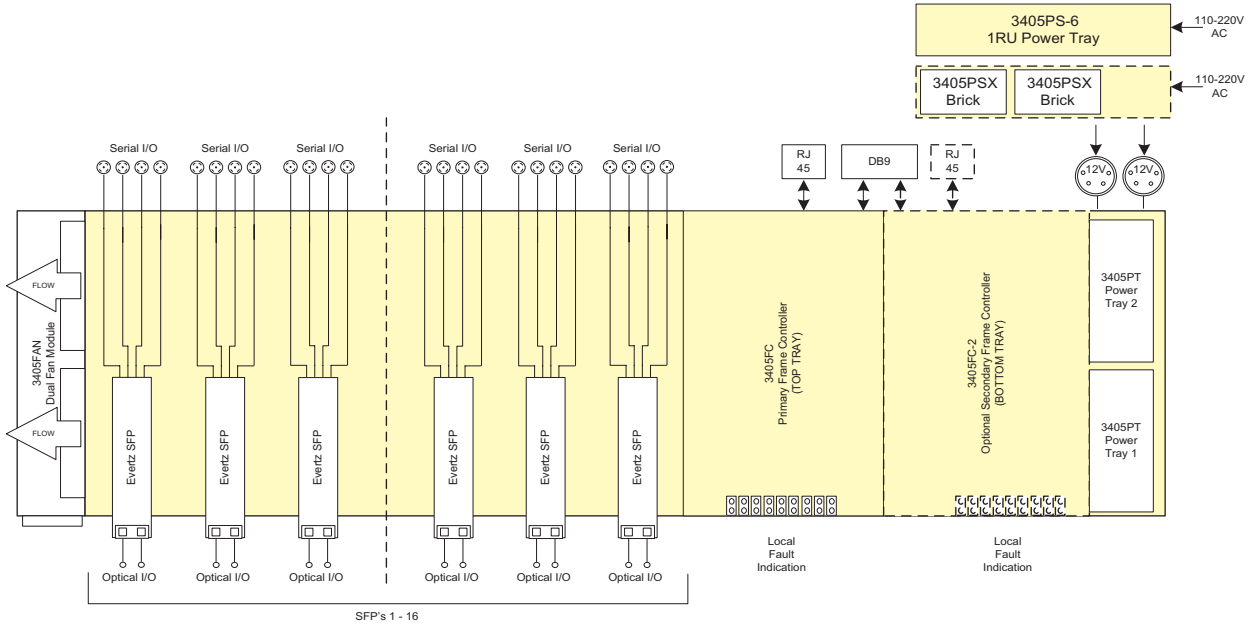
The 3405FR-DIN frame comes with a 3405FAN fan module and 2 x 3405PT power trays. SFPs, frame controllers and power supply modules must be ordered separately. Please see ordering information.

►Features & Benefits

- Dual Power supplies (primary and redundant) and conversion trays (front extractable)
- Houses up to 16 front loading Evertz® SFP modules
- Each slot can be used as an input or output based on SFP type
- Dual primary & secondary 3405FC Frame Controllers for full VistaLINK® SNMP control and monitoring
- No electrical re-cabling required when hot swapping SFP modules
- Power options include external 12V power supply bricks or 1RU power supply tray which will power up to 6 x 3405FR-DIN units redundancy

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SFP's 1 - 16

Specifications

System:

Density: Up to 16 EO, OE, OO or mixture in a 1RU unit
 Impedance: 75Ω
 Connector: 1.0/2.3 Female connector

Communication and Control:

Serial: RS-232 - single Female 9-pin D connector
 Ethernet: SNMP over IEEE 802.3/U (10/100 BaseTx) RJ45 connector
 Control: VistaLINK®

Optical Output:

Number of Outputs: 1 per SFP
 Connector: LC/UPC
 Rise/Fall Time: <270ps
 Optical Power: +1dBm ±1dBm
 Wavelength: 1310nm

Optical Input:

Number of Inputs: 1 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 Inputs:

Reclocked Standard: SMPTE 424M (3Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), DVB-ASI
 Connector: MiniDIN

Equalization: Automatic to 80m @ 3Gb/s 100m@ 1.5Gb/s
 250m @ 270Mb/s (with Belden 1694A or equivalent)
 Return Loss: > 15dB up to 1.5GHz
 > 10dB up to 3GHz

Electrical Outputs:

Connector: MiniDIN
 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

3405PSX External Power Supply Brick:

AC Mains Input: Auto ranging, 100 - 240 VAC, 50/60 Hz
 Number of Outputs: 1
 Output Voltage: 12VDC
 Output Connector: 4 PIN XLR
 Max Power
 Dissipation: 120 W
 Status Indicators: Green OK LED

3405PS-6:

AC Mains Input: Auto ranging, 100 - 240 VAC, 50/60 Hz
 Number of Outputs: 12 (6 primary, 6 secondary)
 Output Voltage: 12VDC
 Output Connector: 4 PIN XLR
 Max Power
 Dissipation: 250 W (primary)

Status Indicators: 250 W (secondary)
 Green OK LED
 Red Fault LED

Connector:

Power: 4 PIN XLR (12V DC)
 Status Indicators: PSU status LEDs (each per power supply tray)
 Fuses: 5 amp, time delay- 1 per power supply tray

Physical:

Dimensions: 1.8"H x 19"W x 4.16"D
 Module Capacity: 16 Evertz® SFP modules. Dual TX or Dual RX
 Operating Temperature
 0-50°C (with 3405FAN installed)
 0-30°C (with 3405FAN-Q installed)

Electrical:

Power Supply Configuration:
 Dual external supplies (primary/secondary 3405PSX)
 1RU Power Supply Tray (3405PS-6)
 DC Input 12V DC (external power supplies required for 110-220V)
 Voltage:
 Max Power Consumption:
 40W (fully loaded frame with all accessories) Note - power consumption dependent on SFP type

Compliance:

Safety: CSA Listed, Complies with EU Safety Directive
 EMC: Complies with FCC part 15, Class A
 Complies with EU EMC Directives

Ordering Information

3405FR-DIN Fiber Optic SFP DIN frame (does not include power supplies, SFPs, or frame controllers)

3405PST Power supply tray
3405FAN 3405FR-DIN dual FAN module
3405FAN-Q 3405FR-BNC dual quiet FAN module

Note: Order one of the power supply options from below

Ordering Options:

+Q 3405FAN-Q Dual quiet fan option

Evertz SFP modules:

3405T13-R 3G/HD/SD Reclocked SFP transmitter. Three reclocked loop output
3405O013-DA4 3G/HD/SD Reclocked SFP receiver. Reclocked optical loop output + four reclocked electrical outputs

Power Supplies:

3405PSX External power supply brick
3405PS-6 1RU power supply tray for 3405FR-DIN (powers up to 6 units - primary & secondary)

Accessories:

3405FC 3405 Frame controller
3405FC-2 Redundant Frame controller

