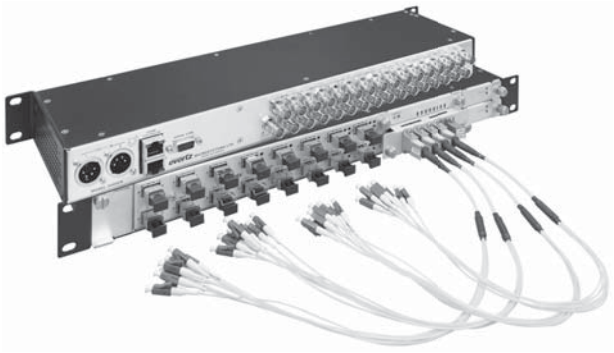
3405FR-BNC, 3405FR-BNC-48V

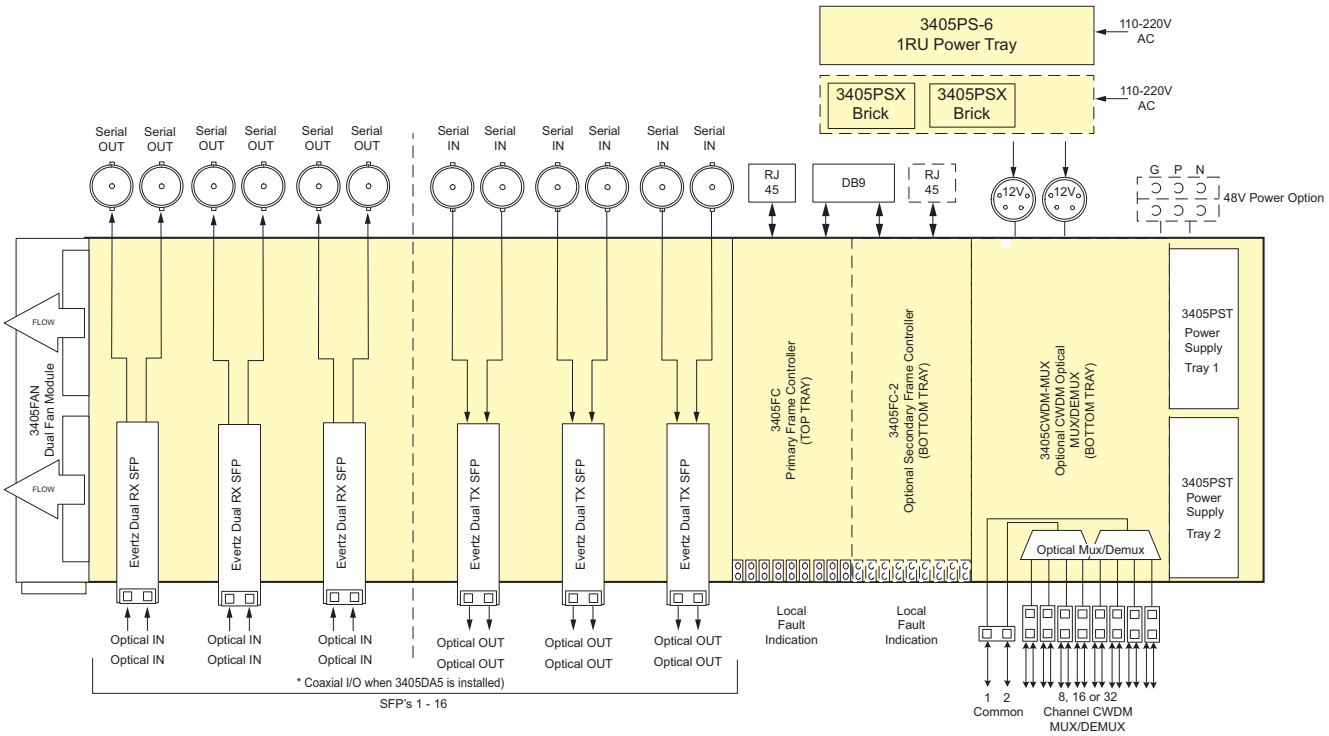
Fiber Optic SFP BNC Frame

The Evertz 3405FR-BNC 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-BNC is ideal for space-limited applications. The 3405FR-BNC 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 3405FR-BNC 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 3405FR-BNC 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-BNC 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-penBNCg feature from Evertz ensuring that the frame and coaxial cabling never need to be removed from the rack for service.



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

Features & Benefits

- High density – up to 32 conversions in 1RU
- Any combination of 3405SFP types may be installed in any slots, incluBNCg 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
- 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

Specifications

System:
Density: 16 SFP's

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®

Electrical Outputs/Inputs:
Connector: BNC per IEC 61169-8 Annex A
Impedance: 75Ω (nominal)

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

Electrical (12V DC Version):
Power Supply
Configuration: Dual External Supplies(primary / secondary 3405PSX) or 1RU Power Supply Tray (3405PS-6)
Voltage: DC Input 12V DC(external power supplies required for 110-220V)
Maximum Power Consumption: 40W (fully loaded frame with all accessories)
Note: Power consumption dependent on SFP type
Connectors: 4 Pin Male XLR (12V DC)
Status Indicators: PST status LEDs (each per power supply tray)

Electrical (48V DC Version):
Power Supply
Configuration: Dual External Supplies (primary/ secondary)
Voltage: Auto ranging 36 ↔72V DC
Maximum Power Consumption: 50W Typical (fully loaded frame with all accessories)
Note: Power consumption dependent on SFP type
Connectors: 3 pin screw terminal strip – 1 per power supply
Status Indicators: PST status LEDs (each per power supply tray)

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

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

Ordering Information

3405FR-BNC	Fiber Optic SFP BNC frame (does not include power supplies, SFPs, frame controllers)
3405FR-BNC-48V	Fiber Optic SFP BNC frame with dual 48V DC inlets (does not include power supplies, SFP's, frame controllers)

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

Ordering Options (Note: Order one of the power supply options from below)
+Q 3405FAN-Q Dual quiet fan option
+PSX Single power supply brick
+PSX-2 Dual (redundant) power supply

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

Accessories
3405FC 3405 Frame controller
3405FC-2 Redundant Frame controller
3405PST Spare power supply tray
3405FAN Spare 3405FR-BNC dual FAN module
3405FAN-Q Spare 3405FR-BNC dual quiet FAN module
3405RB Recessed brackets to provide 5" recessed mounting from front of rack

Evertz SFP Modules
The 3405FR-BNC 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 8 Channel Mux, 1470nm to 1610nm
3405CWDM-D8 8 Channel Demux, 1470nm to 1610nm
3405CWDM-M16 16 Channel Mux, 1270nm to 1610nm
3405CWDM-D16 16 Channel Demux, 1270nm to 1610nm
3405CWDM-2-M8 Dual 8 Channel Mux, 1470nm to 1610nm
3405CWDM-2-D8 Dual 8 Channel Demux, 1470nm to 1610nm
3405CWDM-2-M16 Dual 16 Channel Mux, 1270nm to 1610nm
3405CWDM-2-D16 Dual 16 Channel Demux, 1270nm to 1610nm

Fanout Cables (spare or replacement)
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

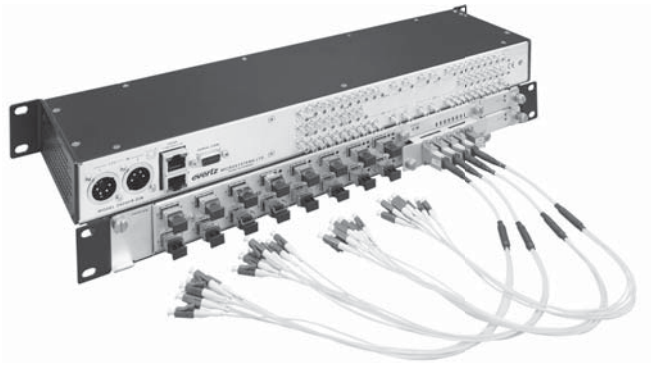
3405FR-DIN, 3405FR-DIN-48V

Fiber Optic SFP DIN Frame Pubbl.2016/03

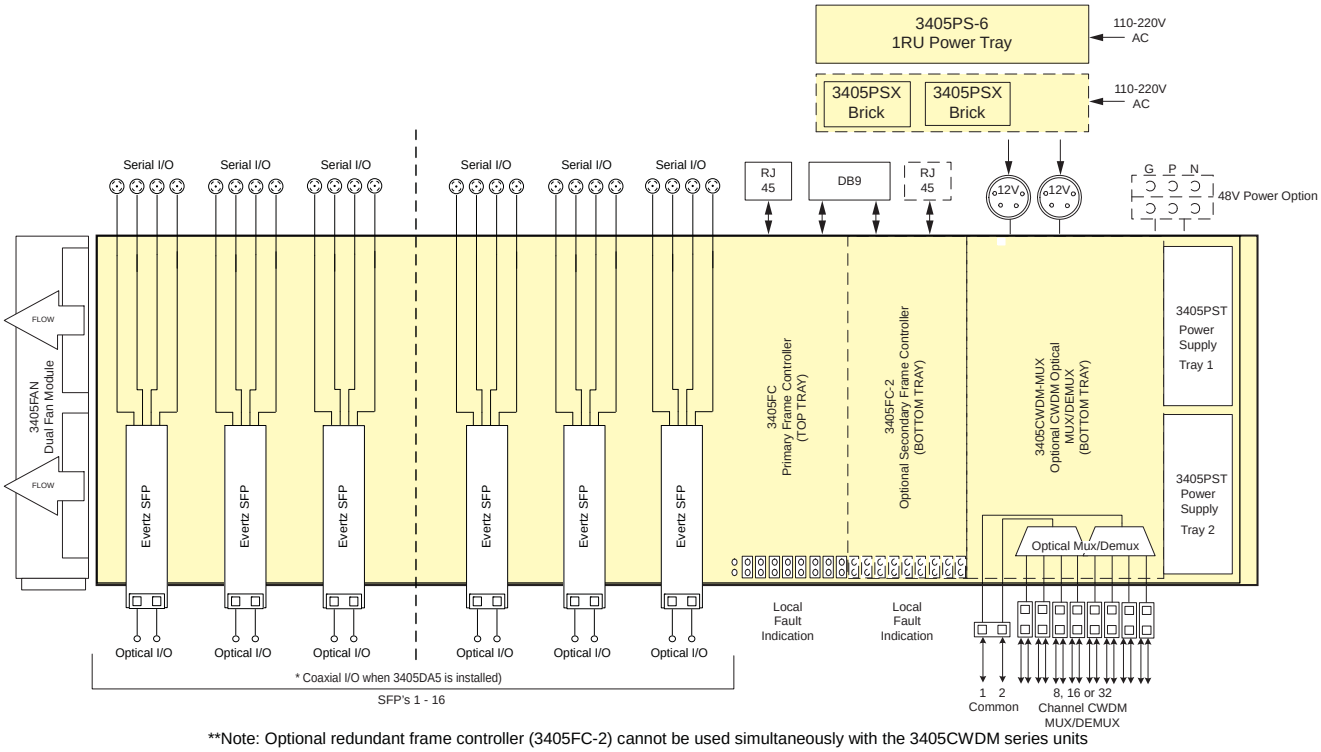
The Evertz 3405FR-DIN is a high-capacity bulk optical conversion platform. With the ability to accommodate 16 Evertz 3405 series SFP's, up to 32 optical to electrical or electrical to optical conversions may be performed in a single frame. Occupying only 1RU of rack space, the 3405FR-DIN is ideal for 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 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 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 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 3405FR-DIN 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-DIN 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.



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

The Complete Solution Provider

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

Fiber Optic SFP DIN Frame

Specifications

System:

Density:	Up to 32 EO, OE, or mixture of EO and OE in a 1RU unit

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®

Electrical Inputs/Outputs:

Reclocked Standard:	SMPTE 424M (3 Gb/s), ST 292-1 (1.5Gb/s), SMPTE ST 259 (270Mb/s), DVB-ASI
Connector::	Mini DIN 1.0/2.3
Equalization:	Automatic to 80m @ 3 Gb/s 100m@ 1.5Gb/s 250m @ 270Mb/s (with Belden 1694A or equivalent)
Return Loss:	> 15dB up to 1.5GHz > 10dB up to 3GHz
Impedance:	75Ω

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)

Electrical (12V DC Version)

Power Supply Configuration:	Dual External Supplies (primary/ secondary 3405PSX) or 1RU Power Supply Tray (3405PS-6)
Voltage:	DC Input 12V DC (external power supplies required for 110-220V)
Max Power Consumption:	40W (fully loaded frame with all accessories) *Note: Power consumption dependent on SFP type*
Connectors:	4 Pin Male XLR (12V DC)
Status Indicators:	PST status LEDs (each per power supply tray)

Electrical (48V DC Version):

Power Supply:	
Configuration:	Dual Terminal Block Inputs (primary/secondary)
Voltage:	Auto ranging 36 ↔ 72V DC
Maximum Power: Consumption:	50W Typical (fully loaded frame with all accessories) *Note: Power consumption dependent on SFP type*
Connectors:	3 pin screw terminal strip 1 per power supply
Status Indicators:	PST status LEDs (each per power supply tray)

Compliance:

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

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

Ordering Information

3405FR-DIN	Fiber Optic SFP DIN frame (does not include power supplies, SFPs, or frame controllers)
3405FR-DIN-48V	Fiber Optic SFP DIN frame with dual 48V DC inlets (does not include SFP's, frame controllers)

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

Power Supplies

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

Accessories

3405FC	3405 Frame controller
3405FC-2	Redundant Frame controller
3405PST	Power supply tray
3405FAN	3405FR-DIN dual FAN module
3405FAN-Q	3405FR-BNC dual quiet FAN module
3405RB	Recessed brackets to provide 5" recessed mounting from front of rack

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*

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

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

3405CWDM-M8	8 Channel Mux, 1470nm to 1610nm
3405CWDM-D8	8 Channel Demux, 1470nm to 1610nm
3405CWDM-M16	16 Channel Mux, 1270nm to 1610nm
3405CWDM-D16	16 Channel Demux, 1270nm to 1610nm
3405CWDM-2-M8	Dual 8 Channel Mux, 1470nm to 1610nm
3405CWDM-2-D8	Dual 8 Channel Demux, 1470nm to 1610nm
3405CWDM-2-M16	Dual 16 Channel Mux, 1270nm to 1610nm
3405CWDM-2-D16	Dual 16 Channel Demux, 1270nm to 1610nm

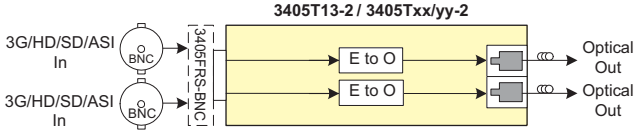
Fanout Cables (spare or replacement)

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

3405FR-BNC

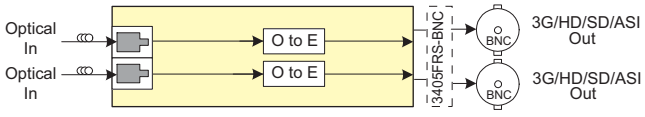
SFP Options

3405T13-2 / 3405Txx/yy-2



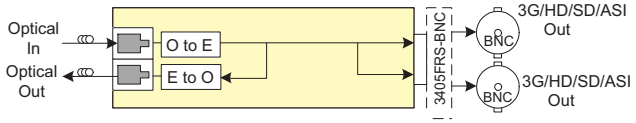
3G/HD/SD dual 1310nm/CWDM SFP transmitters, Non-reclocking

3405R-2 / 3405R-2R



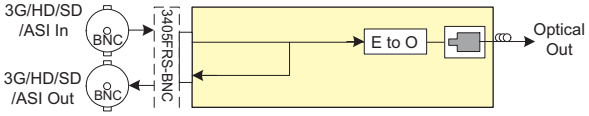
3G/HD/SD dual SFP receiver, Non-reclocking use 3405R-2, Reclocking use 3405R-2R

3405OO13-DA4/ 3405OOxx-DA4



3G/HD/SD SFP reclocked receiver
Reclocked optical loop output & dual reclocked electrical outputs

3405T13-R / 3405Txx-R



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

The Evertz® 3405FR-BNC SFP frame is the ideal solution for today's low cost, high density fiber optic distribution needs. The 3405FR-BNC 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, multiplexers, 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-BNC is a 1RU frame designed to house up to 16 Evertz® SFP modules. This provides up to 32 EO or 32 OE in a single rack unit of space. The frame can be configured for a mixture of modules. See SFP options above.

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

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

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

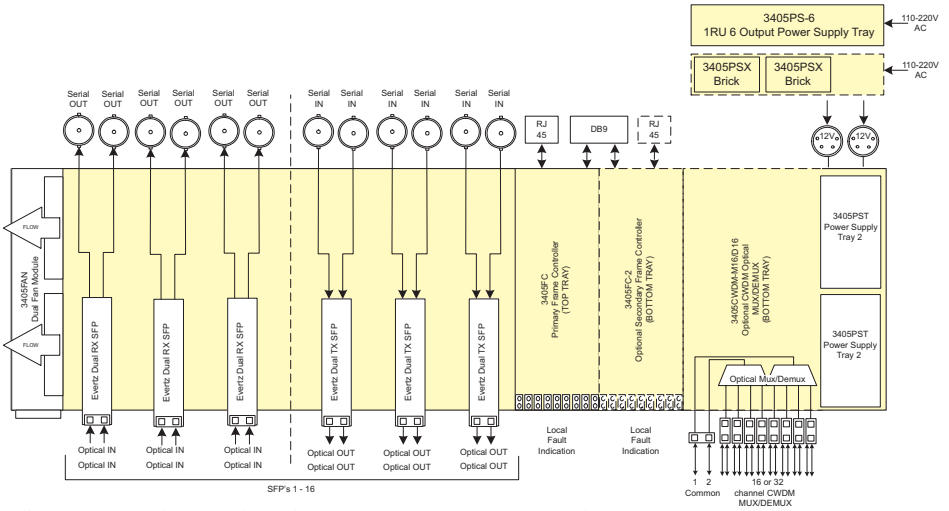
Features & Benefits

- 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-BNC units with redundancy
- Optional bi-directional single or dual Mux/Demux of up to 16 wavelengths in the 1270nm to 1610nm spectrum (ITU-T G.694.2 compliant)
- MTP to LC/UPC fanout cable for convenient fiber connection from Evertz SFPs to Mux/Demux modules

The Complete Solution Provider

3405FR-BNC

Fiber Optic SFP BNC Frame



**Note: Optional redundant frame controller (3405FC-2) cannot be used simultaneously with the 3405CWDM-M16/D16 unit

Specifications (NOTE: Electrical input & output specs only apply to reclocking SFP modules(3405T13-R & 3405OO13-DA4)

System:

Density:	Up to 32 EO, OE, or mixture of EO and OE in a 1RU unit
Impedance:	75Ω
Connector:	BNC per IEC 61169-8 Annex A (F-type connector optional)

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:	Up to 2 per SFP
Connector:	LC/UPC
Rise/Fall Time:	<270ps
Optical Power:	
Standard:	-2dBm +/-1dBm
CWDM:	+3.5dBm +/-1dBm
Wavelength:	
Standard:	1310nm
CWDM:	1270nm-1610nm ITU-T G.694.2 compliant

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 Inputs:

Reclocked Standard:	SMPTE 424M (3 Gb/s), SMPTE 292M (1.5Gb/s), SMPTE 259M (270Mb/s), DVB-ASI
Connector::	BNC per IEC 61169-8 Annex A
Equalization:	Automatic to 80m @ 3 Gb/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:	BNC per IEC 61169-8 Annex A
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) 250 W (secondary)
Status Indicators:	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)
Voltage:	DC Input 12V DC (external power supplies required for 110-220V)
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-BNC	Fiber Optic SFP BNC frame (does not include power supplies, SFPs, frame controllers, Mux/Demux modules or Mux/Demux fanout cables)

Ordering Options:

+Q	*3405FAN-Q Dual quiet fan option*

Note: Order one of the power supply options from below

Power Supplies:

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

Accessories:

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

Evertz SFP modules:

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

Fiber Optic Mux/Demux Modules(MTP to LC fanout cable not included):

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

Note: 3405CWDM-2-M16/D16 requires 2 x CB-MTP40CM-LCPC-HB &
2 x CB-MTP40CM-LCPC-LB for full 32ch connectivity
3405CWDM-M16/D16 requires 1 x CB-MTP40CM-LCPC-HB &
1 x CB-MTP40CM-LCPC-LB for full 16ch connectivity

Fanout Cables:

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

3405FR-BNC

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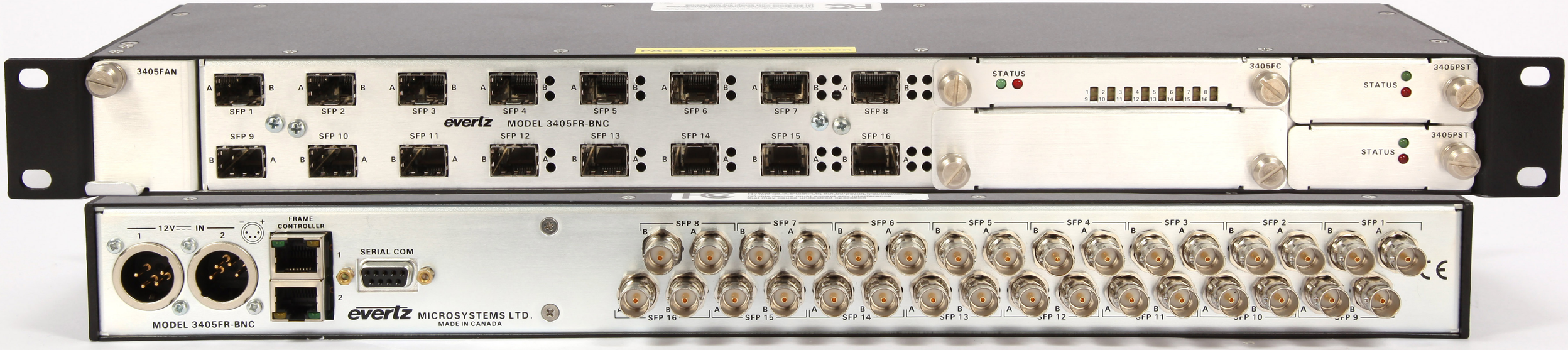

3405FR-PSX

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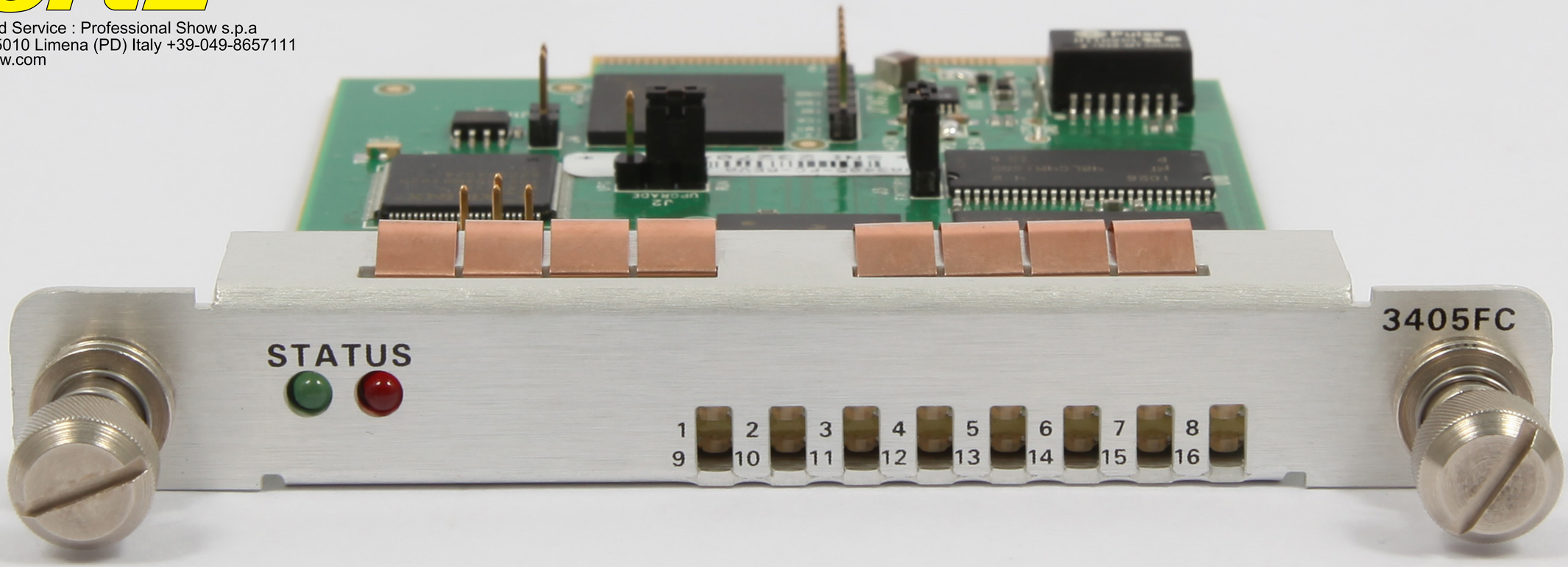

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