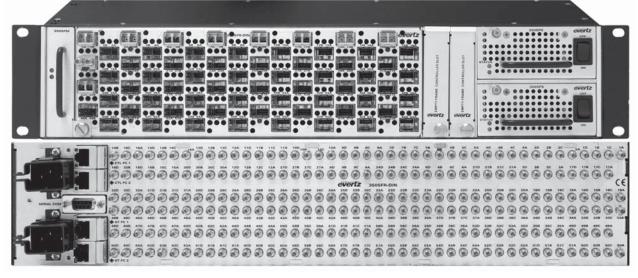
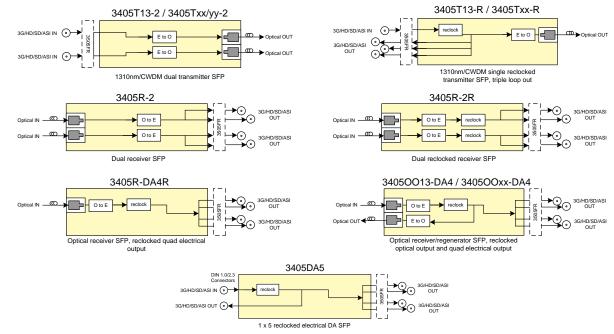
3505FR-DIN Fiber Optic SFP Din Frame

The Evertz 3505FR-DIN is a high-capacity bulk optical conversion platform. With the ability to accommodate 64 Evertz 3405 series SFP's, up to 128 optical to electrical or electrical to optical conversions may be performed in a single frame. Occupying only 2RU of rack space, the 3505FR-DIN is the industry's highest density optical conversion platform making it ideal for space-limited applications. The 3505FR-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/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 3505FR-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.



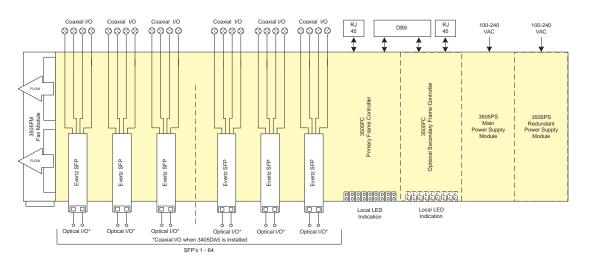


The Complete Solution Provider



Features & Benefits

- Highest density in the industry up to 128 conversions in 2RU
 Any combination of 3405SFP types may be installed in any slots, including
- 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
- Temperature controlled fans to minimize audible noise
- Accommodates single or dual redundant frame controllers
- Accommodates redundant power supplies
- Quad electrical connectors per SFP facilitates extra electrical distribution Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK® when frame controller(s) are installed



▶Specifications

System:		Optical Input:		Electrical Outputs:	
Density:	Up to 128 EO, OE, or mixture of EO	Number of Inputs:	Up to 2 per SFP	Connector:	Mini DIN 1.0/2.3
	and OE in a 2RU unit	Connector:	LC/UPC	Impedance:	75W (nominal)
Impedance:	75Ω	Operating Wavelength:	1270nm to 1610nm	Signal Level:	800mV (nominal)
		Maximum Input Power:		DC Offset:	0V +/-0.5V
Communication and Control:		Standard:	-1dBm		
Serial:	RS-232 - single Female 9-pin D	Optical Sensitivity:		Rise and Fall Time (Reclocked SFP's only):	
	connector	Standard:	-21dBm at 2.97Gb/s pathological	HD/3G:	<135ps
Ethernet:	SNMP over IEEE 802.3/U (10/100		Level A	SD:	< 900ps
	BaseTx) RJ45 connector for M&C		-23dBm at 2.97Gb/s color bars	Overshoot(Reclocke	d SFP's only):
Control:	VistaLINK [®] /SNMP			`	< 10% of amplitude
		Electrical Inputs:		Return Loss:	>15dB to 1.5GHz
Optical Output:		Reclocked Standard:SMPTE 424M (3 Gb/s), SMPTE 292M			>10dB to 3GHz
Number of Outputs:	Up to 2 per SFP		(1.5Gb/s), SMPTE 259M (270Mb/s),	Alignment Jitter(Recl	ocked SFP's only):
Connector:	LC/UPC		DVB-ASI	•	< 0.2UI (Reclocked) to 1.485Gb/s
Optical Power:		Connector::	Mini DIN 1.0/2.3		< 0.3UI (Reclocked) to 2.97Gb/s
Standard:	-2dBm +/-1dBm	Equalization:	Automatic to 80m @ 3 Gb/s 100m@		
-S (Short haul):	-7dBm+/-1dBm		1.5Gb/s	Electrical:	
CWDM:	+3.5dBm +/-1dBm		250m @ 270Mb/s (with Belden	AC Input:	Auto-ranging, 100-240VAC, 50/60Hz
Wavelength:			1694A or equivalent)	Power:	200W max
Standard & -S:	1310nm	Return Loss:	> 15dB up to 1.5GHz	Connector:	IEC 320 - 1 per power supply
CWDM:	1270nm-1610nm		> 10dB up to 3GHz		1 1 1 1 1 1 1 1 1 1
	ITU-T G.694.2 compliant			Physical:	
				Dimensions:	3.5"H x 19"W x 5.5"D
				Module Capacity:	64 Evertz 3405 or 3505 SFP's

Ordering Information						
3505FR-DIN	Fiber OpticSFP DIN frame	3405Txx/yy-2	3G/HD/SD dual CWDM SFP transmitter, non-reclocking			
*Note: SFP's sold sepa	arately, please specify at the time of ordering.	3405T13-R	3G/HD/SD reclocked 1310nm SFP transmitter, reclocked electrical loop output			
	s require a 5dB optical attenuator at the output of all transmitting " short haul version transmitter SFP's are used.	3405T13-R-S	3G/HD/SD 1310nm reclocked SFP transmitter, short-haul, reclocked electrical loop output			
		3405Txx-R	3G/HD/SD reclocked CWDM SFP transmitter, reclocked electrical loop out			
Ordering Options +35PS	Redundant power supply	3405R-2 3405R-2R	3G/HD/SD dual SFP receiver, non-reclocking 3G/HD/SD dual SFP receiver, reclocked outputs			
Accessories		3405R-DA4R	3G/HD/SD single reclocked SFP receiver			
3505FC 3505FM	SNMP Frame Controller Spare/replacement fan module	34050013-DA4	3G/HD/SD reclocked SFP receiver/regenerator, reclocked 1310nm optical loop output and reclocked electrical outputs			
J/LC/LC/ATTEN-5DB	5dB optical attenuator. Required for multimode applications	340500xx-DA4	3G/HD/SD reclocked SFP receiver/regenerator, reclocked CWDM optical loop output and reclocked electrical outputs			
3505PS	Spare/replacement power supply module	3405DA5	3G/HD/SD distribution amplifier, reclocked			
Evertz SFP modules 3405T13-2 3405T13-2-S	3G/HD/SD dual 1310nm SFP transmitter, non-reclocking 3G/HD/SD dual 1310nm SFP transmitter, non-reclocking, short-haul					