



Quad Frequency Stacker Modules:

Applications:

ATX's quad frequency stackers have been deployed for numerous applications to transport return signals back to the headend.

- ▶ Node segmentation
- ▶ Distribution networks
- ▶ RFoG applications
- ▶ FTTx & PON networks

Features:

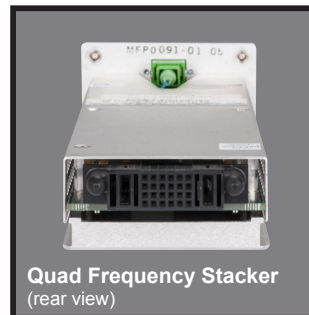
- ▶ Four compact modules in a single TranScend TSD-CH-DC chassis
- ▶ Hardened -20°C to +75°C version available
- ▶ Quadruples return path bandwidth
- ▶ SNMP remote monitoring

Key Benefits:

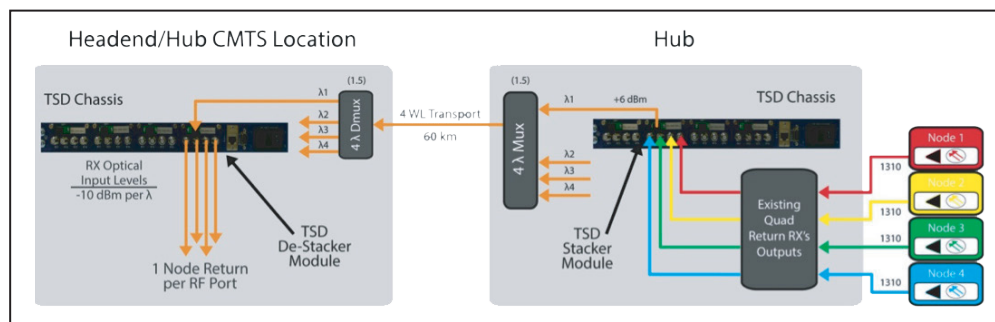
- ▶ Ideal for networks with limited available optical fibers
- ▶ A fully segmented node's four 5-85 MHz return signals can be transported on the same downstream fiber
- ▶ Up to 60 km transmission without EDFAs
- ▶ Capable of bringing back 40 ITU channels or 160 streams on a single fiber, making it ideal for RFoG
- ▶ Frequency stacking between 1 GHz & 2 GHz for second order, free performance
- ▶ Can operate without a dedicated DWDM Mux & DMux

The compact TSD-REM-RF4 series frequency stacks four 5-85 MHz return bands onto one integrated 1550nm ITU laser module. Up to 40 ITU channels or 160 streams can be transported back to the headend on a single fiber. At the headend the TSD-REM-RX4 destacks the signal back into four 5-85 MHz returns.

ATX's frequency stacking return path solution provides unparalleled performance, flexibility & scalability for various network topologies, & is the preferred solution for increased, upstream bandwidth requirements in today's advanced HFC, RFoG & PON networks.



Block Diagram



Quad Frequency Stacker Modules:

Quad Frequency Stacker Specifications

SPECIFICATIONS		
NPR & DYNAMIC RANGE ⁽¹⁾		40/10 dB
OPTICAL OUTPUTS		
WAVELENGTH	ITU 39-53	
SPACING	200 GHz	
OUTPUT POWER	8 dBm	
RF INPUT		
FREQUENCY RANGE ⁽²⁾	5-85 MHz	
NUMBER OF RF INPUTS	4	
RF INPUT LEVEL ⁽³⁾	35 dBmV Total	
RF TEST POINT (Relative to Input Level)	-20 dB	
USER INTERFACE		
FRONT PANEL	LCD Display with Menu Switch Keys	
REAR PANEL (Module)	One SC/APC Optical Output Connector Four F-type RF Input Connectors	
NETWORK MANAGEMENT	SNMP V2	
POWER		
POWER CONSUMPTION	10W	
AC VOLTAGE SUPPLY RANGE	85-240 VAC	
DC VOLTAGE SUPPLY RANGE	42-56 VDC	
ENVIRONMENTAL		
OPERATING TEMPERATURE	STANDARD	0°C to +50°C (+32°F to +122°F)
	HARDENED	-20°C to +75°C (-4°F to +167°F)
STORAGE TEMPERATURE	-40°C to +85°C (-40°F to +185°F)	
HUMIDITY	Max. 85% Non-condensing	
PHYSICAL		
DIMENSIONS	1.6"H x 2.75"W x 10.0"D (4.06H x 7.0W x 25.4D cm)	
WEIGHT	0.5 lbs (0.23 kg)	
NOTES:		
(1) Specified at -7 dBm optical input level, with a load of 5-42 MHz.		
(2) Frequency response for +/-1 dB worst case, +/- 0.75 dB typical for 5-42 MHz.		
(3) At full load.		

Available Configurations

Available Configurations
TSD Series Frequency Stacking Modules, Standard Operating Temperature Range of 0°C to +50°C. Four RF Inputs (5-85 MHz returns), +8 dBm Optical Output at ITU CHs 39, 41, 43, 45, 47, 49, 51, 53.
TSH Series Frequency Stacking Modules, Hardened Operating Temperature Range of -20°C to +75°C. Four RF Inputs (5-85 MHz returns), +8 dBm Optical Output at ITU CHs 43, 45, 47, 49.

Specifications subject to change without notice.



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