TranScend

Quad Frequency Destacker Modules:

Applications:

ATX's quad frequency destacker modules have been deployed for numerous applications to receive return signals at 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 TranScend TSD-REM-RX4 destacker complements the TSD-REM-RF4 series frequency stackers. High sensitivity optical upstream receivers accept the 1550nm ITU signals & destack the upconverted 1-2 GHz block into the original 5-85 MHz return path signal. The receivers can take a wide optical input range of -10 to 0 dBm.

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 Destacker (front view)

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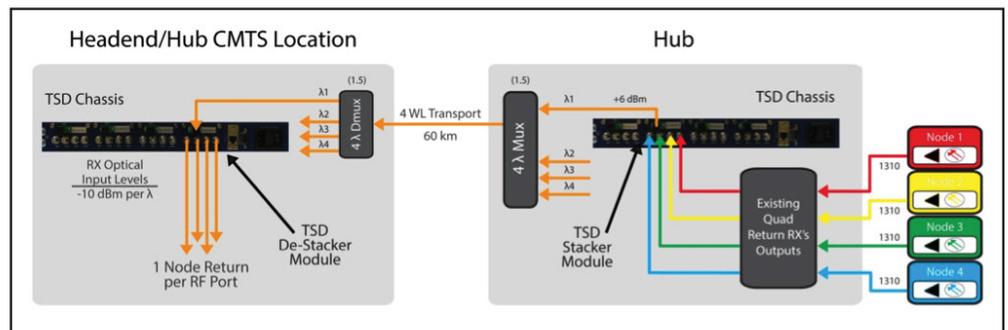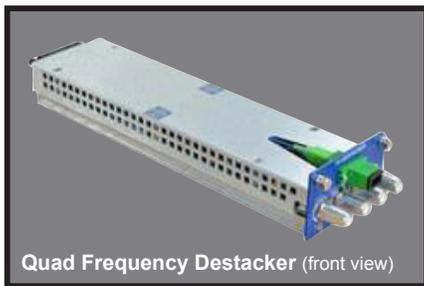
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Quad Frequency Destacker Specifications

SPECIFICATIONS		
NPR & DYNAMIC RANGE[1]		40/10 dB
OPTICAL INPUT		
WAVELENGTH		ITU 39-53
SPACING		200 GHz
INPUT POWER		-10 to 0 dBm
RF OUTPUT		
FREQUENCY RANGE[2]		5-85 MHz
NUMBER OF RF OUTPUTS		4
RF OUTPUT LEVEL[3]		
RF TEST POINT (Relative to Output Level)		-20 dB
USER INTERFACE		
FRONT PANEL ($\leq$ 40 dBmV)		LCD Display with Menu Switch Keys
REAR PANEL (Module)		One SC/APC Optical Input Connector Four RF Type F Output Connectors
NETWORK MANAGEMENT		SNMP V2
POWER		
POWER CONSUMPTION		14W
AC VOLTAGE SUPPLY RANGE		85-240 VAC
DC VOLTAGE SUPPLY RANGE		42-56 VDC
ENVIRONMENTAL		
OPERATING TEMPERATURE	STANDARD	0ºC to +50ºC (+32ºF to +122ºF)
	HARDENED	-20ºC to +75ºC (-4ºF to +167ºF)
STORAGE TEMPERATURE		-40ºC to +85ºC (-40ºF to +185ºF)
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.

Ordering Information

Part Number	Description
TSD-REM-RX4-C	Destacking Module, Standard Operating Temperature Range of 0ºC to +50ºC. Optical Input Range -10 to 0 dBm, Four RF Outputs (5-85 MHz returns).
TSH-REM-RX4-C	Destacking Module, Hardened Operating Temperature Range of -20ºC to +75ºC. Optical Input Range -10 to 0 dBm, Four RF Outputs (5-85 MHz returns).

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