TranScend

Quad Return Receiver Modules:

Applications:

ATX's quad receivers have been deployed for numerous applications to receive return traffic at the headend.

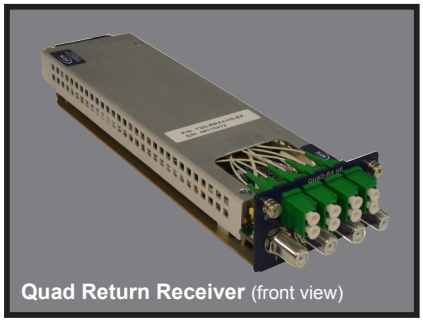
- Node segmentation
- Distribution networks
- RFoG applications
- FTTx networks
- Long haul super-trunking

Features:

- Very low noise
- Four compact modules in a single TranScend TSD-CH-DC chassis
- Standard, high sensitivity & integrated DMux configurations
- Hardened -20°C to +75°C version available
- Optional express port
- SNMP remote monitoring

Key Benefits:

- The TSD-RRX series are high performance receivers for return path applications
- Each compact TSD-RRX module has four completely independent optical receivers
- Four modules can be housed in a single TranScend TSD-CH-DC chassis enabling 16 return paths to be hosted in 1RU
- The TSD-CH-DC can be mounted on top of each other so 48 return paths can be accommodated in a 3RU space
- High sensitivity (RFoG) units are available with optional built-in express ports that can be used to feed & extract GPON wavelengths
- Standard sensitivity units with optional integrated Mux



Quad Return Receiver (front view)

Available Configurations

Available Configurations
Standard & High Sensitivity Receivers.
Standard & High Sensitivity Receivers with Express Ports.
Standard & High Sensitivity Receivers with Express Ports & Integrated DMux.
NOTE: All receivers available in hardened module versions (-20ºC to +75ºC).

Quad Return Receiver Modules:

Quad Return Receiver Specifications

SPECIFICATIONS		
NPR & DYNAMIC RANGE		
HIGH SENSITIVITY RECEIVER[1]		30/15 dB
STANDARD RECEIVER[2][3]		40/15 dB
RECEIVER WITH INTEGRATED DMUX[1]		40/15 dB
WAVELENGTH		
HIGH SENSITIVITY & STANDARD RECEIVER	OPERATING WAVELENGTH	1270-1620nm
RECEIVER WITH INTEGRATED DMUX	OPERATING WAVELENGTH	ITU ± 0.2
	DROPPED ITU WAVELENGTH[4]	Band A or B
	DROPPED WAVELENGTH INSERTION LOSS	0.8-1.4 dB
OPTICAL INPUT		
OPTICAL INPUT LEVEL	HIGH SENSITIVITY RECEIVER	-18 to -30 dBm
	STANDARD RECEIVER	0 to -20 dBm
	STANDARD RECEIVER WITH INTEGRATED DMUX	0 to -20 dBm
RF OUTPUT		
NUMBER OF OUTPUTS		4
FREQUENCY RANGE[5]	HIGH SENSITIVITY RECEIVER	5-85 MHz
	STANDARD RECEIVER	5-200 MHz
	STANDARD RECEIVER WITH INTEGRATED DMUX	5-200 MHz
RF OUTPUT LEVEL[6]		42 dBmV
RF TEST POINT (Relative to Output Level)		-20 dB
EXPRESS PORT		
PASSBAND (If Present)		1604-1617nm
REFLECT BAND	STANDARD & HIGH SENSITIVITY RECEIVERS	1300-1620nm
	RECEIVER WITH INTEGRATED DMUX	1430-1620nm
	INSERTION LOSS	0.3-0.8 dB
USER INTERFACE		
FRONT PANEL		LCD Display with Menu Switch Keys
REAR PANEL		One SC/APC Optical Input Connector
		Four Dual LC Optical Connectors for Optical Outputs & Express Ports
NETWORK MANAGEMENT		SNMP V2
POWER		
POWER CONSUMPTION	HIGH SENSITIVITY RECEIVER	14W
	STANDARD RECEIVER	10W
	RECEIVER WITH INTEGRATED DMUX	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 -20 dBm optical input level, with a load of 5-42 MHz.
(2) Specified at -10 dBm optical input level, with a load of 5-42 MHz with standard return transmitter.
(3) Channel attenuation = 16 dB (factory default setting).
(4) Band C covers ITU CHs 39, 41, 43, 45 & Band B covers ITU CHs 47, 49, 51, 53.
(5) Frequency response for +/- 1 dB worst case, +/- 0.75 dB typical.
(6) Standard receiver at -15 dBm optical input, 10% OMI on transmitter. High sensitivity receiver at -20 dBm optical input, 30% OMI on transmitter. Receivers have integrated Mux.

Specifications subject to change without notice.

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