

Test Loop Translator -Reversible Signal Path

The PRT series of Ka and Ku Band Test Loop Translators feature technology to achieve reversible operation with the ability to introduce different transfer characteristics in the forward and reverse paths.

In this way, one TLT instrument can be used in a variety of test applications for frequency conversions from Uplink (Tx) to Downlink (Rx) or to L-Band and from L-Band to Downlink (Rx).

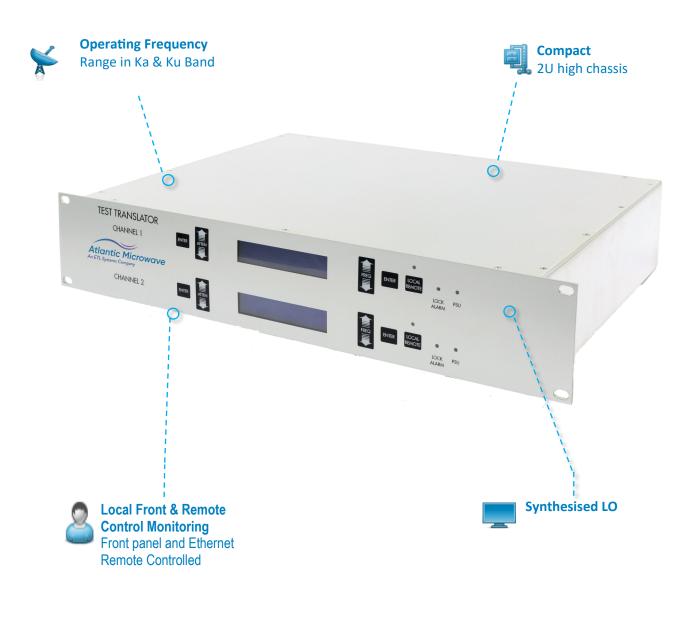
Forward and reverse paths may have different values of Conversion Gain, Attenuation Range, Filtering Characteristics and LO Frequency. Instruments are essentially customised for the desired applications parameters.

Typical applications:

- Synthesised LO
- Simultaneous Operation

PRT Series

- Local & Remote Ethernet Control
- Extremely Versatile
- Standard & Custom Options





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General Specification		Environmental				
Maximum Input Level	+10dBm	Operating Temperature				
Conversion Gain Flatness	+/-2dB typ. +/-0.5dB/40MHz max	Operating Temperature 0 to +50C (see options)				
Impedance	50 ohms	Storage Temperature	rage Temperature -10 to +70C			
Input VSWR	1.3:1 typical	Physical				
Output VSWR	1.3:1 typical					
Signal Related Spurious	-25dBc typical	Dimensions	19" x 2U x 13.5" (343mm) excl. connectors & protrusions			
LO Related Spurious &	-30dBm typical					
Non Signal or LO Related	-60dBm minimum	Fixed LO Phase Noise dBc/Hz (typical) (GHz)				
Lock Alarm	LED, Front Panel & Ethernet	Offect Erequency	2.0	10.0	12.0	27.0
Input Connector	2.92mm Female Ka band SMA Female Ku Band	Offset Frequency	2.0	10.0	12.0	27.0
		100Hz	-80	-70	-65	-60
Output Connector	SMA Female	1KHz	-90	-85	-75	-70
Reference Input Connector	BNC Female					
Ethernet Connector	RJ45	10KHz	-95	-90	-80	-75
Power		100KHz	-95	-90	-80	-80
Input Power	80-240V, 50-60Hz					
Input Power Connector	IEC with Fuse	1MHZ	-120	-115	-115	-110

General Specification								
Model Number	Direction	Input Frequency Range	Output Frequency Range	LO Frequency Range				
PRT-Ka-1001	Forward Path	27.5-31.5GHz	0.95-1.70 GHz	26.55-29.80GHz				
	Reverse Path	0.95-1.70 GHz	17.7-21.2GHz	16.75-19.50GHz				
PRT-Ku-1002	Forward Path	12.75-14.5GHz	0.95-1.70 GHz	11.80-13.05GHz				
	Reverse Path	0.95-1.70 GHz	10.7-12.75GHz	9.75-11.05GHz				

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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