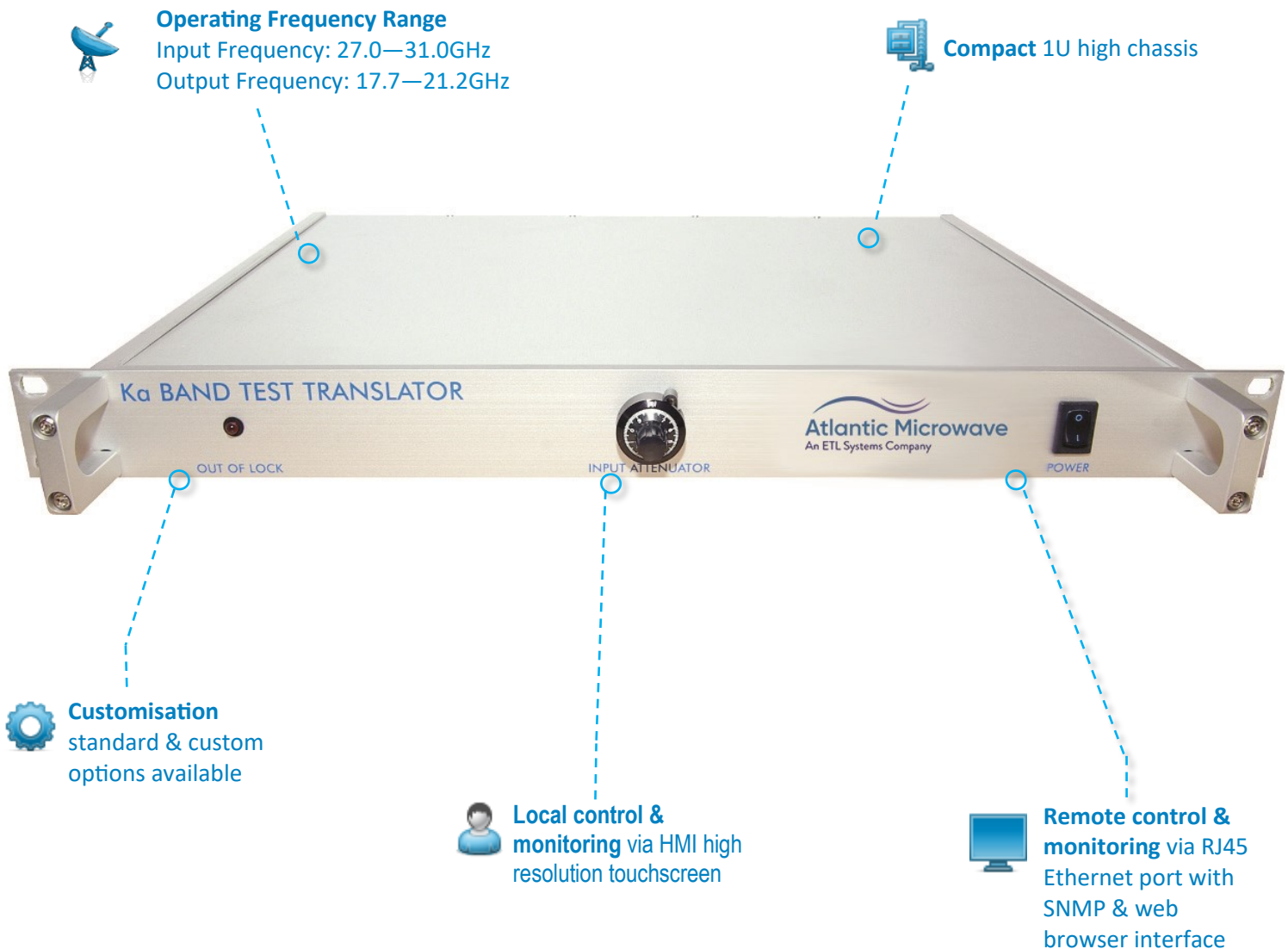


Ka-band Tx to Ku-band Rx Test Loop Translator—Fixed LO

The ALT series of Ka Band Test Loop Translators (TLT's) are designed to replace the satellite link for test and alignment of earth station systems operating in the Ka frequency bands. Incorporating fundamental frequency phase locked oscillators and double balanced mixers, the translators block convert frequencies from uplink to either downlink or L-Band for instantaneous monitoring of frequency, power levels and modulation. The input path contains a front panel controlled continuously variable attenuator for reducing input power levels. Each unit also provides a reference frequency output and LO lock alarm.

Typical applications:

- To replace the satellite link for test and alignment of earth station systems operating in the Ka frequency bands.
- SNG testing.
- Satcoms & Teleports testing.



General Specification				
Operating Frequency Range	Input	27500 - 31000MHz		
	Output	17700 - 21200MHz		
Maximum Input Level		+10dBm		
Conversion Gain Flatness		+/-2dB typ. +/-0.5dB/40MHz max		
Impedance		50 ohms		
Input VSWR		1.8:1 typical		
Output VSWR		1.8:1 typical		
Signal Related Spurious		-25dBc typical		
LO Related Spurious & Harmonics		-30dBm typical		
Non Signal or LO Related Spurious		-60dBm minimum		
Lock Alarm		Front Panel		
Input Connector (see options)		2.92mm Female		
Output Connector		2.92mm Female		
Reference Input Connector		BNC Female		
Power				
Input Power		80-240V, 50-60Hz		
Input Power Connector		IEC with Fuse		
Environmental				
Operating Temperature		0 to +50C (see options)		
Storage Temperature		-10 to +70C		
Physical				
Dimensions		19" x 1U x 13.5" (343mm) excl. connectors & protrusions		
Fixed LO Phase Noise dBc/Hz (typical) (GHz)				
Offset Frequency (Hz)	2.0	10.0	12.0	27.0
100	-77	-72	-70	-63
1K	-90	-83	-80	-75
10K	-100	-85	-85	-78
100K	-100	-90	-85	-80
1M	-132	-117	-115	-109
10M	-140	-138	-135	-128

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.

ATLANTIC MICROWAVE
40a Springwood Drive
Braintree
Essex
England CM7 2YN

TELEPHONE
+44 (0)1376 550220
EMAIL
sales@atlanticmicrowave.com

FACSIMILE
+44 (0)1376 552145
WEB
www.atlanticmicrowave.com

