

Test Loop Translator ATLT-S100 model



Advantages

- Converts S-band 2025 -2120 MHz to 2199-2303 MHz
- User adjustable LO frequency with 1kHz step size
- Cost effective solution
- 10 MHz high stability internal reference
- Front panel control (local)
- Full remote control (remote)

Overview

The Advantech Wireless Test Loop Translators ATLT-S100 models are available in variety of operating bands. The units are designed for testing satellite communications links. They simulate the satellite by band-translating the uplink frequencies to down link frequency. A single band ATLT unit works with 2025-2120 MHz operating frequency band, translating it to 2199-2303 MHz, ready to be processed by the demodulator. Other frequency bands are also available. Please consult factory.

The flexible and comprehensive monitor and control features on the ATLT-S100 ensure that it will fit into any network management system architecture. The user-friendly front panel or the RS485 remote interface will provide full set-up and fault monitoring facilities.

The translator unit is housed in 19" 1U shelf. It is designed to meet the phase noise and frequency stability requirements of the satellite communications industry.

Operating Bands

Basic Model number	RF Output MHz	RF Input MHz
ATLT- S100	2199 - 2303	2025-2120

Options

- 10 MHz internal/external reference with Autosensing
- Ethernet SNMP Monitoring and Control
- Other operating bands, please consult factory

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Product Features & Specifications			
RF Output		RF Input	
Frequency range	2199-2303 MHz	RF Input	2025-2120 MHz
Output impedance	50Ω	Input level	0 dBm max
Output VSWR	1.5:1 max over operating band		+10 dBm no damage
		Input / Output Connector	N-type (female)
		Return loss	18 dB
Conversion Parameters		Controls & Indicators	
Max Conversion Gain	-35 dB min		Band select
Gain adjustment	40 dB		Attenuator control
Attenuator step size	1 dB		Local/Remote
Gain flatness	2.0 dB P-P max.		Mute/Un-mute
	0.8 dB P-P max. over any 40 MHz		Total time is use
Gain stability	±0.75 dB/15°C max. 0°+55°C	Mechanical	
Spurious	45 dBc In-band	Dimensions	Width 19" (482.6 mm)
	-50 dBm Out-of-band		Height 1U 1.75" (44.45 mm)
Group delay (over 40 MHz)	Linear 0.02 ns/Hz		Depth 20" (508 mm)
	Parabolic 0.003 ns/MHz ²	Power Supply	
	Ripple 1 ns p-p	Voltage	90 – 265 VAC (47 – 63 Hz)
Phase noise	10 Hz -45 dBc	Power	20W
	100 Hz -73 dBc	Connector	IEC 603320 10A
	1000Hz -83 dBc	Monitor and Control	
	10 kHz -93 dBc	RS 485	DB9
	100 kHz -103 dBc	RS 232	DB9
	1 MHz -115 dBc	Environmental	
Reference		Operational	0°C to +50°C standard
External Reference	10 MHz	Storage	-55°C to +85°C
External ref. input level	0 dBm ± 5 dB	Humidity	Non-condensing
Internal reference stability	+/- 2 x 10 ⁻⁸ / day	Altitude	3,000m AMSL
Aging	+/- 1 x 10 ⁻⁷ / year		

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