

Test Loop Translator ATLT-X100 model



Advantages

- Converts X-band 7.9 – 8.4 GHz to 7.25 – 7.75 GHz
- Cost effective solution
- 10 MHz high stability internal reference
- Front panel control (local)
- Full remote control (remote)

Operating Bands

Basic Model number	RF Input MHz	RF Output MHz
ATLT- X100	7900 - 8400	7250 - 7750

*Other frequency bands are available, please consult the factory

Overview

The Advantech Wireless Test Loop Translators ATLT-X100 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 7900 – 8400 MHz operating frequency band, translating it to 7250 - 7750 MHz, ready to be processed by the down-converter. Other frequency bands are also available. Please consult factory.

The flexible and comprehensive monitor and control features on the ATLT-X100 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.

Options

- Ethernet SNMP Monitoring and Control
- Other operating bands, please consult factory

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Product Features & Specifications			
RF Output		RF Input	
Frequency range	7250 – 7750 MHz	Frequency range	7900 – 8400 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		Attenuator control
Gain adjustment	40 dB		Local/Remote
Attenuator step size	0.1 dB		Mute/Un-mute
Gain flatness	2.0 dB P-P max. 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 -50 dBm Out-of-band	Dimensions	Width 19" (482.6 mm)
Group delay (over 40 MHz)	Linear 0.02 ns/Hz Parabolic 0.003 ns/MHz ² Ripple 1 ns p-p		Height 1U 1.75" (44.45 mm)
Phase noise	10 Hz -45 dBc		Depth 20" (508 mm)
	100 Hz -73 dBc	Voltage	90 – 265 VAC (47 – 63 Hz)
	1000Hz -83 dBc	Power	20W
	10 kHz -93 dBc	Connector	IEC 603320 10A
	100 kHz -103 dBc	Monitor and Control	
	1 MHz -115 dBc	RS 485	DB9
Reference		RS 232	DB9
Internal reference stability	+/- 2 x 10 ⁻⁸ / day	Environmental	
Aging	+/- 1 x 10 ⁻⁷ / year	Operational	0°C to +50°C standard
		Storage	-55°C to +85°C
		Humidity	Non-condensing
		Altitude	3,000m AMSL

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