

Test Loop Translator ATLT-C100 model



Advantages

- Converts C-band 5.85–6.425 GHz to 3.625-4.2 GHz
- Cost effective solution
- 10 MHz high stability internal reference
- Front panel control (local)
- Full remote control (remote)

Operating Bands

Basic Model number	RF Output MHz	RF Input MHz
ATLT- C100	5850 - 6425	3625 - 4200

Overview

The Advantech Wireless Test Loop Translators ATLT-C100 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 5850-6425 MHz operating frequency band, translating it to 3625-4200 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-C100 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			
Frequency range	3625 - 4200 MHz	RF Input	5850 - 6425 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		
	Ripple 1 ns p-p	Power Supply	
Phase noise	10 Hz -45 dBc	Voltage	90 – 265 VAC (47 – 63 Hz)
	100 Hz -73 dBc	Power	20W
	1000Hz -83 dBc	Connector	IEC 603320 10A
	10 kHz -93 dBc	Monitor and Control	
	100 kHz -103 dBc	RS 485	DB9
	1 MHz -115 dBc	RS 232	DB9
Reference		Environmental	
Internal reference stability	+/- 2 x 10 ⁻⁸ / day	Operational	0°C to +50°C standard
Aging	+/- 1 x 10 ⁻⁷ / year	Storage	-55°C to +85°C
		Humidity	Non-condensing
		Altitude	3,000m AMSL

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