



Advantages

- Converts S-band 2025 –2120 MHz to 2200-2295 MHz
- 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- S100	2200 - 2295	2025-2120

Overview

The Advantech 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 2200-2295 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.

Options

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

PRODUCT FEATURES & SPECIFICATIONS

RF Output

Frequency range	2200-2295 MHz
Output impedance	50 Ω
Output VSWR	1.5:1 max over operating band

Conversion Parameters

Max Conversion Gain	-35 dB min
Gain adjustment	40 dB
Attenuator step size	1 dB
Gain flatness	2.0 dB P-P max. 0.8 dB P-P max. over any 40 MHz
Gain stability	± 0.75 dB/15°C max. 0°+55°C
Spurious	-45 dBc In-band -50 dBm Out-of-band
Group delay (over 40 MHz)	Linear 0.02 ns/Hz Parabolic 0.003 ns/MHz ² Ripple 1 ns p-p
Phase noise	10 Hz -45 dBc 100 Hz -73 dBc 1000Hz -83 dBc 10 kHz -93 dBc 100 kHz -103 dBc 1 MHz -115 dBc

Reference

External Reference	10 MHz
External ref. input level	0 dBm $\pm$ 5 dB
Internal reference stability	$\pm 2 \times 10^{-8}$ / day
Aging	$\pm 1 \times 10^{-7}$ / year

RF Input

Input level	2025-2120 MHz 0 dBm max +10 dBm no damage
Input/Output Connector	N-type (female)
Return loss	18 dB

Controls & Indicators

Band select
Attenuator control
Local/Remote
Mute/Un-mute
Total time is use

Mechanical

Dimensions	Width 19" (482.6 mm) Height 1U 1.75" (44.45 mm) Depth 20" (508 mm)
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Power Supply

Voltage	90 – 265 VAC (47 – 63 Hz)
Power	20W
Connector	IEC 603320 10A

Monitor and Control

RS 485	DB9
RS232	DB9

Environmental

Operational	0°C to +50°C standard
Storage	-55°C to +85°C
Humidity	Non-condensing
Altitude	3,000m AMSL

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