



Atlantic Microwave Ltd Product Ranges

Test Loop Translators

Test Loop Translators are designed to replace the satellite link for test and alignment of earth stations systems operating in S, C, X, Ku or DBS frequency bands.

Available with Tx-Rx , L-Rx and Tx-L frequency translation.

Fixed LO



- Fixed LO
- Up to 3.5 GHz Bandwidth
- Includes Ka Bands – 27.5 to 31.5 GHz
- Gain Adjustment
- Low Phase Noise
- 1U Rack Height
- 19" Rack Mount
- Custom Options

Synthesised LO



- Ka band, Ku bands & Q-band only
- Local and Remote Ethernet Control for LO Frequency and Signal Attenuation
- External or Internal 10MHz Reference
- Standard and Custom Options

Portable



- Ka band and Ku bands only
- Synthesised LO—Ethernet Control
- Local and Remote Ethernet Control for LO Frequency and Signal Attenuation
- Internal 10MHz Reference
- Battery Powered
- Standard and Custom Options

TLT & Noise Injection– Combined



- Ka band, Ku bands & Q-band only
- Provides Loop Back Translation Tx to L-band with L-band noise injection
- Local and Remote Ethernet Control
- Versatile and Comprehensive Test System
- Test RF Chain and Receiver/Modem in One

Satellite Simulators

Satellite Simulators enable RF testing of mobile satellite communications systems without the need for cabling and with true portability for optimum equipment location.

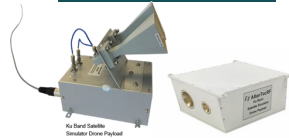
Ka-band



These simulators are fitted with dual polarised horn antennas in both the uplink and downlink bands and for each frequency conversion there is a separate attenuator providing adjustment of signal levels to accommodate receiver sensitivity and range distance.

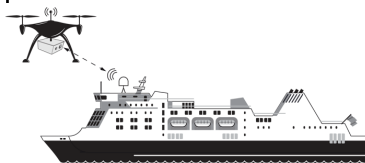
- Cable-less RF Test Solution
- Dual Polarity
- Ka Band (Ku and DBS available)
- Totally Portable
- Battery or mains Powered
- Self Contained Operation

Drone Mountable



The Drone Satellite Simulator is manoeuvred so it aligns with the ship's antenna prior to testing. By then manoeuvring the drone the operator can easily test the terminal's satellite tracking.

- X, Ku and Ka Band Options
- Weatherproof
- Light Weight
- Rugged
- Battery or Drone Powered
- Cable-less RF Test Solutions
- High altitude platforms
- Drones/UAVs

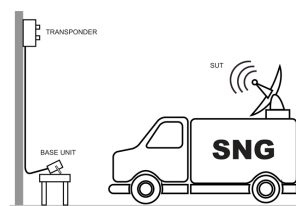


SNG



SNG series of Satellite Simulator Systems is designed to provide a loop-back test for vehicle mounted Ku Band antennas without the need to access the satellite.

- Depot Based or Portable
- Easy and Quick Operation
- Ethernet and Local Controls
- Two part – Base Unit & Transponder
- Other frequencies available
- Fully Turnkey

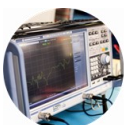
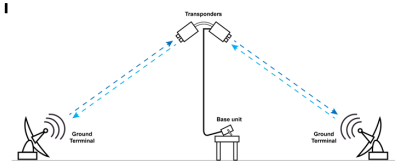


Multi-path






Multi-Path Satellite Simulators simultaneously talk to two sets of ground equipment, enabling the user to run extensive and prolonged tests without the need to go 'live' on a satellite.




- Models for X, Ku, DBS, Ka and Q bands
- Linear and circular polarisation options
- Fixed installation or portable
- Ethernet and local controls
- 3 part, base units and terminals
- 2 part option – Ethernet control



Noise & Signal Generators

<p><u>Broadband Noise Generators</u></p> 	<p>Noise Generators and Ethernet Controlled Noise Generators provide up to 1 watt of white Gaussian noise output in several models over the 10Hz to 18GHz frequency range, with custom options to 40GHz and are designed to be used either as laboratory instruments or as built-in system test facilities.</p>	<ul style="list-style-type: none"> •High Output, up to +30dBm •White Symmetrical Gaussian Noise •Remote and Local Operation •Flat Output •Fine Attenuation Control •Output Mute Option •Standard and Custom Options 	
<p><u>Signal Generators</u></p> 	<p>The Signal Generators and mini signal generators provide economical and versatile solutions where there is a need to input microwave frequencies for test purposes at remote locations, antenna sites, equipment cabins and laboratories related to satellite communications, radar systems, EW systems, scientific apparatus and similar applications.</p>	<ul style="list-style-type: none"> •L, S, C, X, Ku, DBS, Ka, Q bands •Frequency Steps from 1KHz •Local and Remote Control with GUI •Internal or External Reference •Ethernet or RS485 Control •Good Phase Noise •Choice of Housing •RoHS Compliant 	<p>•Mini Signal Generator 25 - 6000MHz</p>  <ul style="list-style-type: none"> •Frequency & Level Control •USB & RS232 •External or internal Reference •supplied with USB to mini USB cable and DC input connector.

Cable Assemblies

<p><u>Coaxial Cables</u></p> 	<p>Coaxial Cable Assemblies provide the microwave system designer with a versatile solution to equipment and sub-assembly cabling without the need for detailed design of semi-rigids. With a copper/tin composite outer conductor the cable can be hand formed in situ while maintaining performance essentially similar to formed copper semi-rigid of equivalent size and the high resistance to work-hardening allows for subsequent bend adjustments.</p>
<p><u>Test Cables</u></p> 	<p>Test Cables Assemblies provides the microwave test engineer with a versatile solution to laboratory test cabling. With a braided outer conductor over a silver plated spiral strip the cable can be repeatedly flexed maintaining performance essentially equivalent to formed copper semi-rigid of equivalent size.</p>
<p><u>Custom Cables & Semi-Flex & Semi-Rigid Cable Assemblies</u></p> 	<p>Custom Cable Assemblies can be built to specified lengths with a very wide variety of connector choice, possibly formed in copper semi-rigid cable to precise dimensions, phase matched in pairs and sets or designed to meet exacting electrical and environmental parameters including low loss, high phase stability, extended frequency range or super flexibility.</p>

Components

<p style="text-align: center;">Atlantic Microwave Components</p> <ul style="list-style-type: none"> • Oscillators • Amplifiers • Synthesizers • Attenuators • Bias Tees • Circulators • Couplers • DC Blocks • Filters • Isolators • Power Dividers • Terminations • Bias Tees • Circulators • Switches 	<p style="text-align: center;">Atlantic Suppliers</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; align-items: center;"> <div style="text-align: center; margin: 5px;">  <p>Wenzel Associates, Inc.</p> </div> <div style="text-align: center; margin: 5px;">  </div> <div style="text-align: center; margin: 5px;">  <p>PCI Precision Connector, Inc. "Your Connector Experts"</p> </div> <div style="text-align: center; margin: 5px;">  <p>Omni Spectra Microwave Components</p> </div> <div style="text-align: center; margin: 5px;">  <p>GigaLane</p> </div> <div style="text-align: center; margin: 5px;">  <p>PTF Precise Time and Frequency, LLC an LGL Group Company</p> </div> <div style="text-align: center; margin: 5px;">  <p>XMA POWERED BY Omni Spectra</p> </div> <div style="text-align: center; margin: 5px;">  <p>FILTEK</p> </div> <div style="text-align: center; margin: 5px;">  <p>ASI Microwave Solutions, Inc.</p> </div> <div style="text-align: center; margin: 5px;">  <p>NP Technologies, Inc.</p> </div> <div style="text-align: center; margin: 5px;">  <p>WA WEINSCHEL ASSOCIATES</p> </div> <div style="text-align: center; margin: 5px;">  <p>TSL</p> </div> <div style="text-align: center; margin: 5px;">  <p>BEREX BY SAAB</p> </div> </div>
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