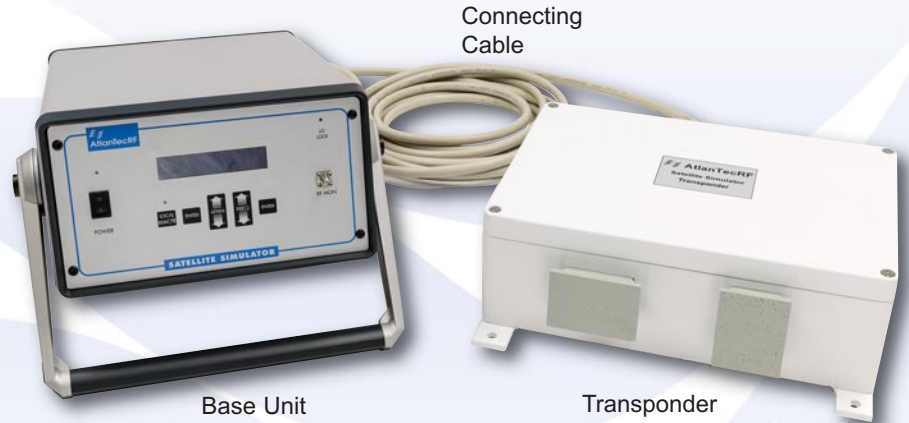


Ku Band SNG Satellite Simulator System

- Tests SNG Systems Off-Satellite
- Covers all Ku Band SNG Frequencies
- Depot Based or Portable
- Easy and Quick Operation
- Ethernet and Local Controls
- Two part – Base Unit & Transponder
- Other Satellite Bands also available
- Fully Turnkey



General Specifications	
RF Input Frequency (Horizontal Pol)	14.00 to 14.5GHz
RF Output Frequency (Vertical Pol)	10.7 to 12.75GHz
LO Frequency	1.75 to 3.3GHz
LO Step Size	25MHz
LO Stability over -10+50C	+/- 0.05ppm
LO Phase Noise (typ.)	Offset, Hz dBc/Hz
	100 -77
	1K -95
	10K -100
	100K -100
	1M -125
Signal Related Spurious	-25dBc typ.
Non - Signal Related Spurious	-60dBc typ.
LO Related Spurs and Harmonics	-30dBm typ.
Antenna Gain, Tx and Rx	15dB nom.
RF Path Loss (exc Antennas)	0dB nom.
Attenuation Control	0-60dB, 0.5dB step
RF Output Monitor via SMA Female	-25dB nom.
Control and Monitoring	Local (Base Unit) or Remote Ethernet
AC Supply via IEC Connector	90 – 240V, 50/60Hz
Operating Temp Range	-10 to +50C
Interconnect Cables Supplied (Between Units)	Data / Power RF Monitor
Accessories Supplied	AC Power Cord RF Cable to connect to Spectrum Analyser SMA Torque Wrench Operating Manual
Size exc connectors etc:	
Base Unit - Inches (mm)	W10 (255) x H5.7 (145) x D12.6 (320)
Transponder - Inches (mm)	W13 (330) x H4.5 (115) x D9 (230)

The AtlantecRF 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.

Comprised of two units, the satellite simulator is either depot based or portable thereby facilitating the testing and calibration of news gathering and outside broadcast systems off-satellite. The base control unit is a convenient, portable bench instrument with the capability of both local and remote, ethernet control and this is connected to a wall or mast mounted transponder via a power and data cable.

The transponder communicates with the SNG system under test (SUT) via appropriately polarised gain horns, receiving at the SUT transmit (Tx) frequency and transmitting at the SUT receive (Rx) frequency, thereby completing the loop-back without satellite involvement.

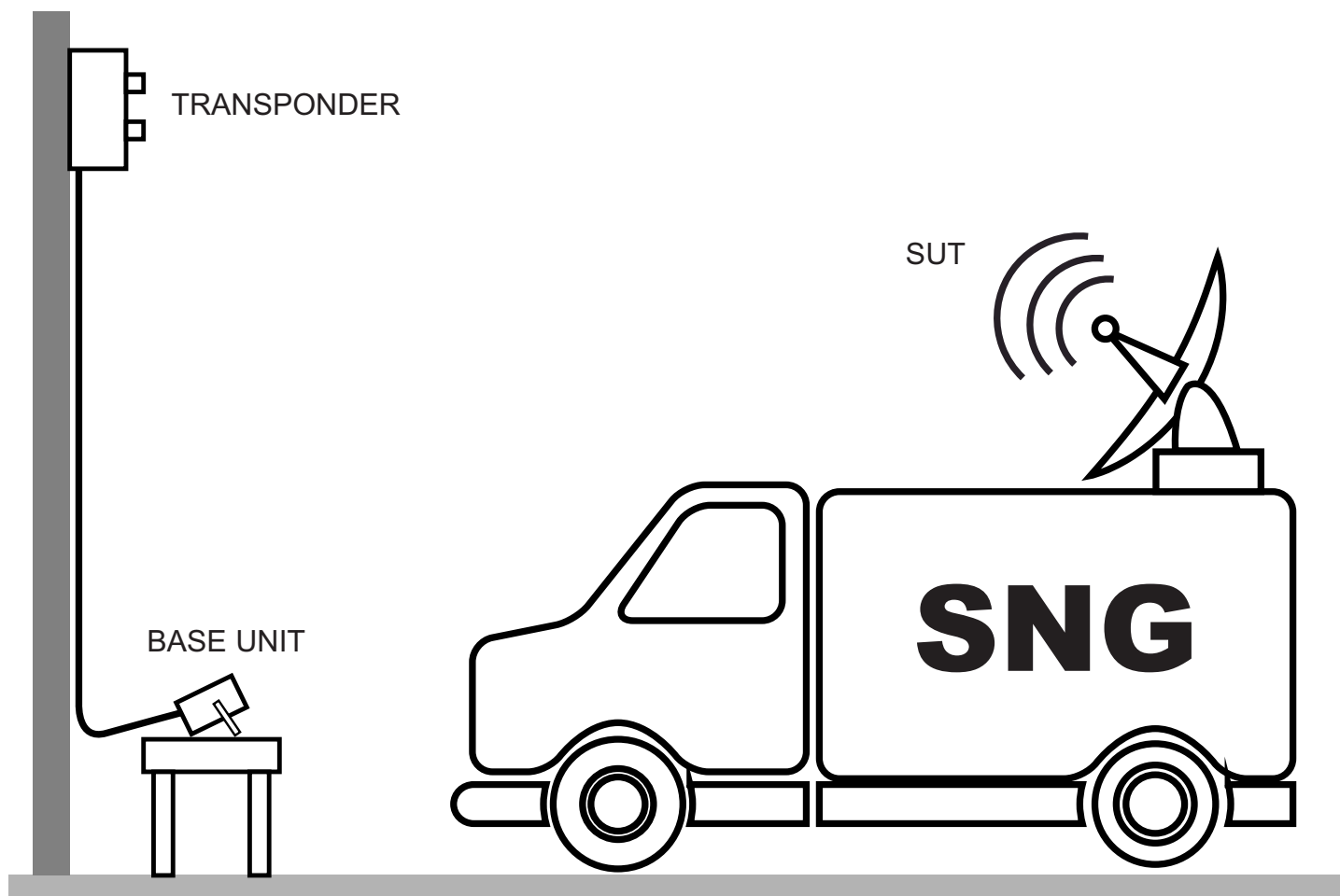
The local oscillator in the transponder is synthesised over its 1.75-3.3GHz range by either front panel controls on the base unit or via ethernet with a GUI and input signal level is similarly controlled over a 60dB range in 0.5dB steps thus accommodating varying range distances from the SUT as well as a variety of Tx power levels.

In addition to the transmission of the Rx frequency direct to the SUT antenna, a sample of this is fed back via coaxial low loss cable to the base unit and is then made available at the front panel for connection to a spectrum analyser or other test equipment.

Model No	Input Frequency Range (GHz)	Output Frequency Range (GHz)	LO Frequency (GHz)
SNG-0175-0330-Ku	14.0-14.5	10.7-12.75	1.75-3.30

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

Ku Band SNG Satellite Simulator System



Proposed set up for the depot based SNG Satellite Simulator System

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