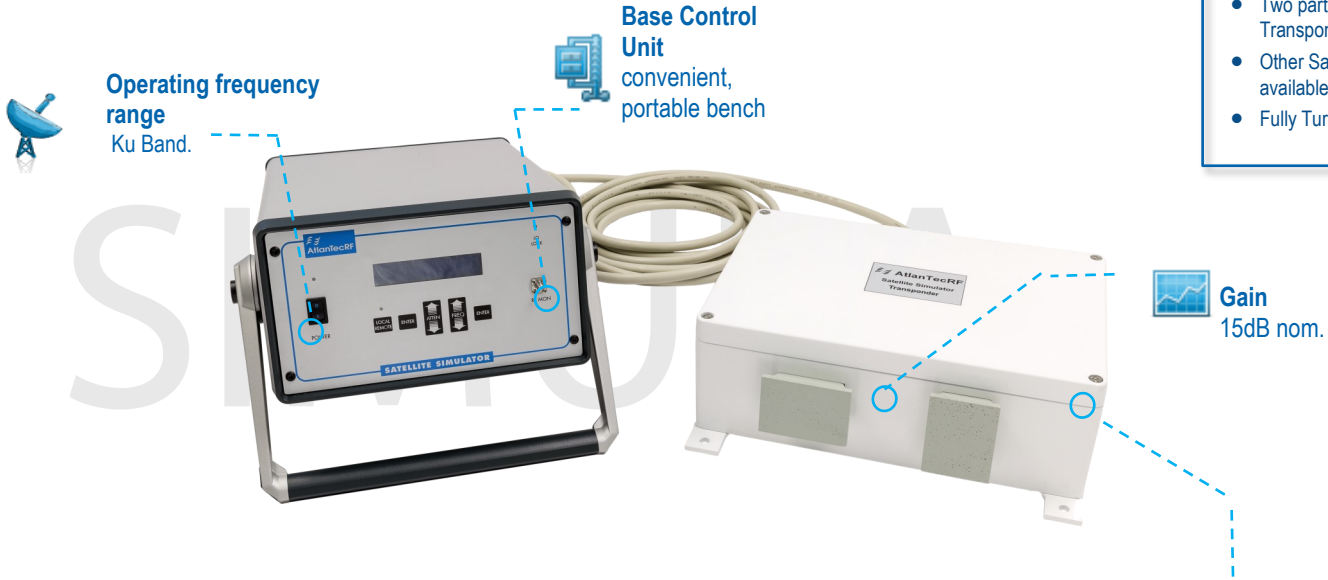


## Ku Band SNG Satellite Simulator System

The 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.

- 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



| RF Parameters                                |                                      |        |
|--|--------------------------------------|--------|
| 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                          |        |
| 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                   |        |
| Interconnect Cables Supplied (Between Units) | Data / Power RF Monitor              |        |
| LO Phase Noise (Typ.)                        | Offset, Hz                           | dBc/Hz |
|  | 100                                  | -77    |
|  | 1K                                   | -95    |
|  | 10K                                  | -100   |
|  | 100K                                 | -100   |
|  | 1M                                   | -125   |

| Environmental         |             |
|-----------------------|-------------|
| Operating Temperature | -10 to +50C |

| Power                       |  |
|-----------------------------|--|
| AC Supply via IEC Connector | 90 – 240V, 50/60Hz to 90 – 240V, 50/60Hz |

| Physical             |   |
|----------------------|---|
| Dimensions           | Base Unit - Inches (mm)<br>W10 (255) x H5.7 (145) x D12.6 (320)<br>Transponder - Inches (mm)<br>W13 (330) x H4.5 (115) x D9 (230) |
| Accessories Supplied | AC Power Cord<br>RF Cable to connect to<br>Spectrum Analyser<br>SMA Torque Wrench<br>Operating Manual                             |

### Options:

- SS01 Two Part Option - Ethernet Only
- SS02 Internal Battery Charger 100-240V, 50/60Hz input
- SS03 Switchable Internal 10MHz OCXO Reference (Frequency Stability, +/- 0.05ppm over 0 to +50C, +/-0.1ppm per year)
- SS04 LCD Display and Digital Attenuator (Ethernet Control).
- SS05 Linear Polarisation Antenna
- SS06 Circular Polarisation Antenna
- SS07 One Part Option - Ethernet only.

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

