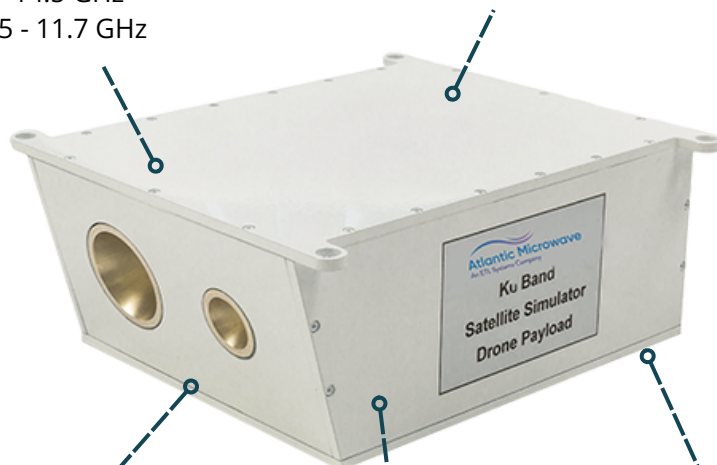


Ku-Band Payload Satellite Simulator

Operating Frequency

Input 13.75 - 14.5 GHz
Output 10.95 - 11.7 GHz

IP65 rated Weatherproof
& Rugged enclosure



Antenna Beamwidths

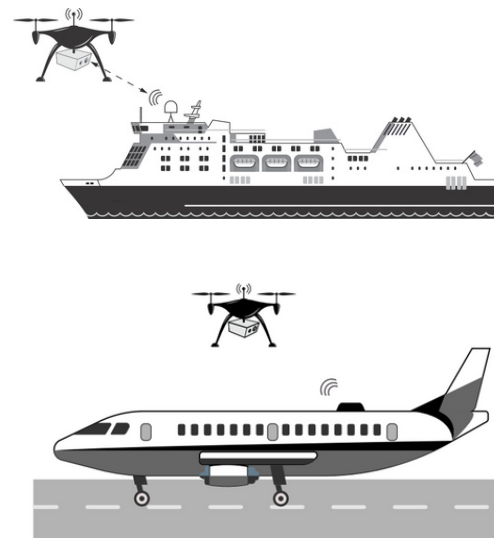
30deg

High Rx & Tx Antenna Gain

7 dB typ.

Compact & Lightweight

For portability



General Specification	
Input Frequency	13.75 - 14.5 GHz
Output Frequency	10.95—11.7 GHz
LO Frequency	2800 MHz
Frequency Stability	+/- 1 ppm
Frequency Reference	100 MHz internal
Frequency Reference Output	25 dB
Conversion Loss	25 dB typical (excluding antennas)
Conversion Gain Flatness	+/- 2 dB typical
TX and RX Antenna Type & Gains	Flat Panel Antenna, 7 dB typical
TX and RX Antenna 3dB Beamwidths	+/- 30 deg nom
Flatness	+ / - 2dB typ. +/- 0.5dB/40MHz max.
Signal Related Spurious	-25 dBc typ
LO Related Spurious & Harmonics	-30 dBm typ.
Non-Signal or LO Related Spurious	-60 dBm min.
Maximum Input Level	+10 dBm (at antenna port)
Polarisation	TX—Vertical, RX—Horizontal

Power	
Power Supply	24V DC
Input Power	24V DC @ 380 mA typical
Power Supply Connector	3 way Bulgin Buccaneer socket (mating plug also provided)

Environmental	
Operating Temperature	-20 to 70°C
Storage Temperature	-40°C to +85°C
Location	Indoor and Outdoor (IP65)

Physical	
Dimensions	220 x 118 x 82 mm
Weight	1.8 kg

Phase Noise dBc/Hz (typical)	
100 Hz	-55
1 KHz	-75
10 KHz	-95
100 KHz	-100
1 MHz	-105

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.