

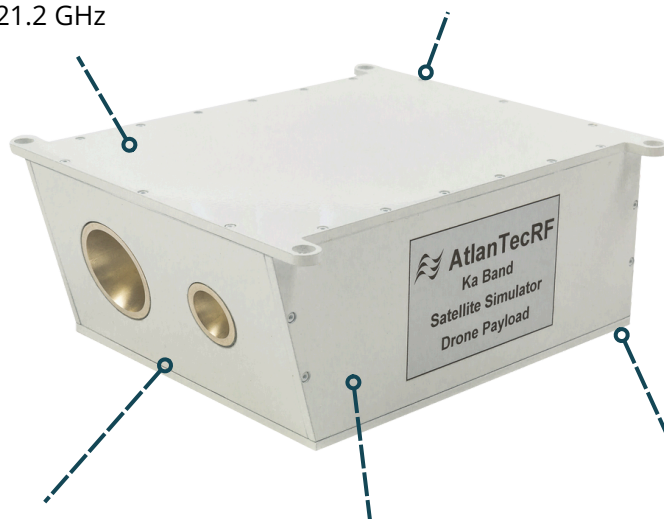
# Ka-Band Payload Satellite Simulator

## Operating Frequency

Input 27.5 - 31.0 GHz

Output 17.7 - 21.2 GHz

## IP65 rated Weatherproof & Rugged enclosure



## Antenna Beamwidths

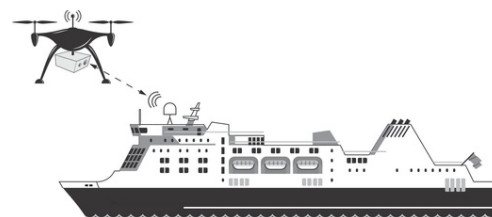
30deg

## High Rx & Tx Antenna Gain

15 dB typ.

## Compact & Lightweight

For portability



General Specification	
Input Frequency	27.5 - 31.0 GHz
Output Frequency	17.7 - 21.2 GHz
LO Frequency	9.8 GHz
LO Stability	+/- 1 ppm
Conversion Gain	-35 dB typical (excluding antennas)
Conversion Gain Flatness	+/- 2 dB typical    +/- 0.5 dB/40 MHz maximum
RX and TX Antenna Gains	15 dB nominal
Maximum Input Level	+ 10 dBm (at antenna port)
Antenna 3dB Beamwidths	30 deg
Polarisation	Right Hand Circular Polarised
Signal Related Spurious	-25 dBc typ.
LO Related Spurious & Harmonics	-30 dBc typ.
Non-Signal or LO Related Spurious	-60 dBm min
Power Supply	24V DC @ 380 mA typ

Power	
Input Power	24V DC @ 380 mA typical
Power Supply Connector	PX0410/03S5560 (mating half provided)

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

Physical	
Dimensions	187 x 118 x 82mm
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.