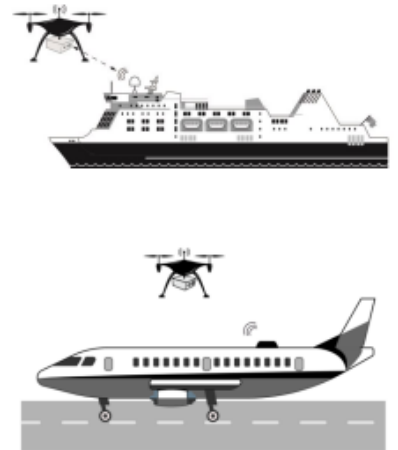
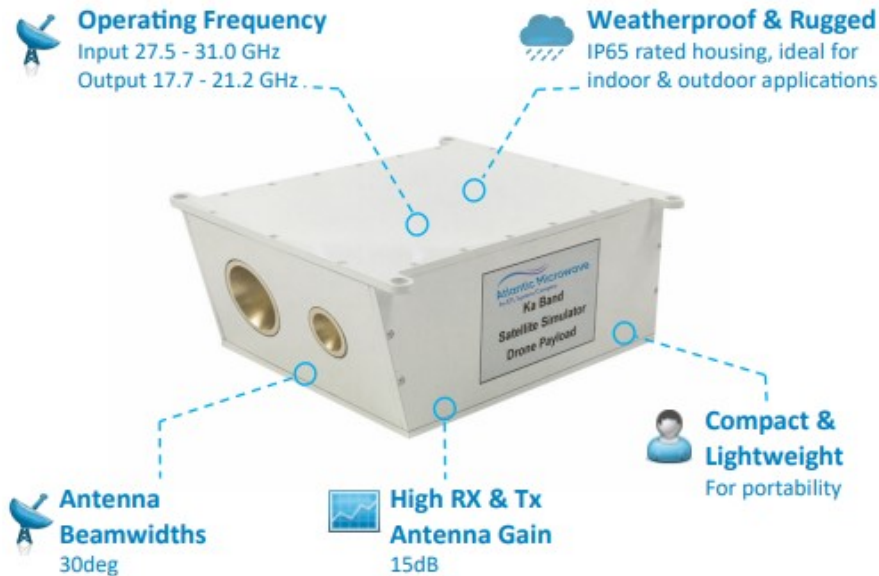


Ka-band Payload Satellite Simulator

Typical applications:

- Satcoms on the move testing
- Drone mounting
- UAV (unmanned aerial vehicle)
- Hap (high altitude platform)



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 dBm 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
Input power connector	PX0410/03S/5560 (mating half provided)
Environmental	
Operating temperature	-20 to +70°C
Storage temperature	-40 to +85°C
Location	Indoor and Outdoor to IP65
Physical	
Dimensions	187 x 118 x 82mm
Weight	1.8kg
Phase noise dBc/Hz (typical)	
100Hz	-55
1KHz	-75
10KHz	-95
100KHz	-100
1MHz	-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.

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