

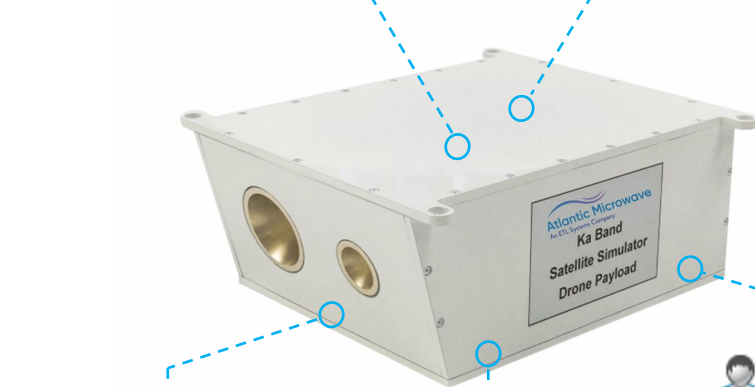
Ka-band Payload Satellite Simulator

Typical Applications:

- Satcoms on the move testing
- Drone Mounting
- UAV (Unmanned Aerial Vehicle) Mounting
- HAP (High Altitude Platform) Mounting

Operating Frequency
Input 27.5 - 31.0 GHz
Output 17.7 - 21.2 GHz

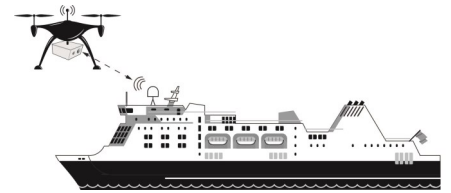
Weatherproof & Rugged
IP65 rated housing, ideal for indoor & outdoor applications



Antenna Beamwidths
30deg

High RX & Tx Antenna Gain
15dB

Compact & Lightweight
For portability



GENERAL SPECIFICATIONS	
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 3 dB 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)	
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.

