

## *Ka band VSAT Terminals*



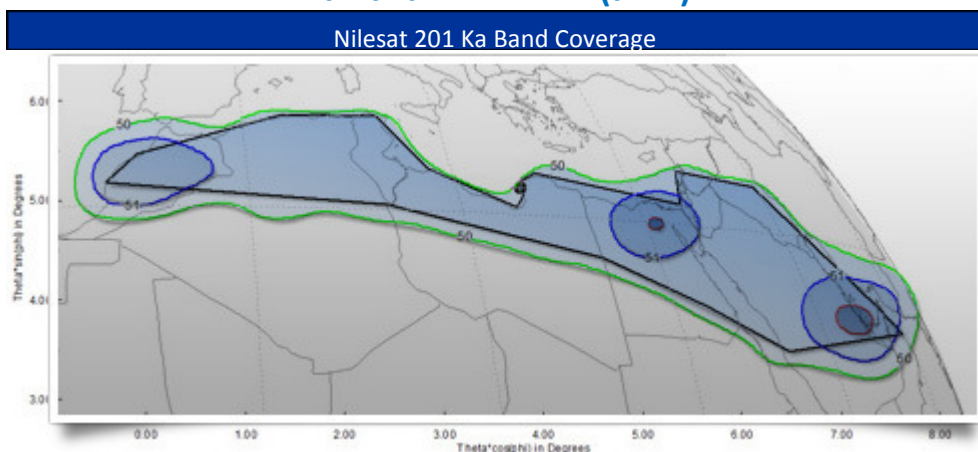
### Innovative VSAT Systems Designed for Ka band Frequency Bands

When advanced technology meets innovative design

iSat Ltd is the first satellite communications equipment provider to produce complete VSAT systems (integrated antennas and RF components) compliant with ka bands in the range 27.5 to 29.5GHz.

iSat design and produce their own feeds and filters to provide the RF VSAT performance required by satellite operators to commercialise their transponders.

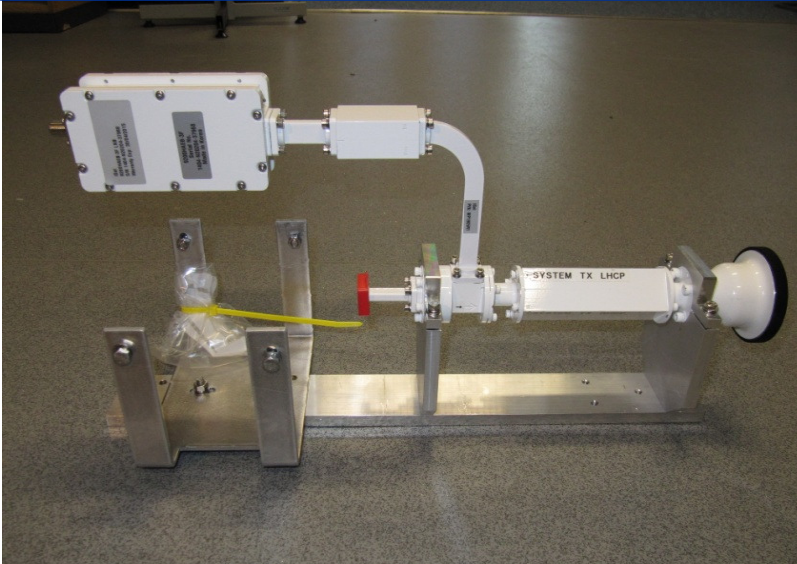
#### **Ka-Band MENA EIRP (dBW)**



Ka-Band MENA EIRP (dBW)

## Ka band VSat Terminals

Feed, TRF and LNB with position for BUC mount



### Frequency

Frequency bands:  
**Earth to Space**  
27.5-27.6 GHz  
**Space to earth**  
21.40-21.50 GHz

### Suitability

Our Ka-band VSAT terminals are suitable for use with modems from all major manufacturers such as and not limited to:

**Ericsson (Tandberg)**  
**Harmonic**  
**Grass Valley**  
**Comtech**  
**Romantis**  
**iDirect**

### Uplink

Frequency Range	27.5-27.6GHz
Output EIRP range	1.2mtr 5 watt 53.75 dBW* 1.8 mtr 5 watt 54.75 dBW* 2.4mtr 5 watt 55.75 dBW*

### Downlink

Frequency Range	21.40 – 21.50 GHz
G/T: 1.2	23 dB/k
1.8	26 dB/k
2.4	28 dB/k

### Physical

Power Requirements	: 115/230 V ac @ 450 - 1500 Watts Industry standard 16-Amp Inlet
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### Operational Temperatures

Outdoor equipment	-40 to +55 Celsius
Indoor equipment	0 to +50 Celsius

\*These figures are cautious and may well be exceeded but offset antenna efficiency goes down with size at Ka-band.

Other special VSATs from iSat include

- X-band
- App30b
- Inverted Ka tx-18.1 rx-22.4
- 24.75-25.25GHz

### 1.8mtr Range Test Results

