



# RESA M Ka

## Requotech Electronically Scanned Antenna - fully integrated satellite terminal.



*RESA M is a fully integrated phased array flat panel antenna terminal suitable for Satcom-On-The-Move over LEO/MEO/GEO constellations. Designed with an increased transmit capability over RESA S, this member of the RESA family of flat panel satellite terminals, can be used as a stand-alone product or used in a mesh configuration with several RESA terminals. This configuration is suitable for ManPack or Vehicle Mount applications. Other members of the RESA family include fully integrated terminals for Land-based, Marine and Airborne communications solutions with radomes tailored to each application.*

- Fully integrated satellite terminal.
- Electronically scanned pointing and tracking.
- Mesh networking of several devices supported.
- Ka band for LEO/MEO/GEO/SOTM operation.
- Modem integrated for internal or external installation.
- Ruggedized design for tough environments.
- ITU-R S.465 compliant patterns.
- Integrated antenna control unit with full sensor kit including beacon receiver, GPS, IMU.
- Operational temperature range -20 to +55 °C / -5 to +130 °F.



## TECHNICAL DETAILS

### RF performance

TX Frequency 27.5 - 31.0 GHz

RX Frequency 17.7 - 21.2 GHz

G/T 9-11 dB/K over frequency and operating temperature

EIRP 48 dBW (max)

Polarity Linear or Circular electronically switched

Side-lobe PSD Tx FCC 25.218

Tx XPD 25 dB

Rx XPD 25 dB

### Electronic scanning specifications

Tracking error < 0.05 dB

Beam update rate 100 Hz

Azimuth adjustment 360° with pointing step

size of 0.1°

Elevation adjustment 0-60° from zenith with

pointing step size of 0.1°

### Electrical specifications

Power Supply 24V 15A (365W)

### Interfaces

DC Power MIL-DTL-5015 (2-pin)

Ethernet RJ4

### Environmental specifications

Operating Temperature -20 to +55°C / -5 to +130 °F

Storage Temperature -40 to +70°C / -40 to +160°F

Protection IP67

Wind 250 km/h / 155 mph

### Weight and dimensions

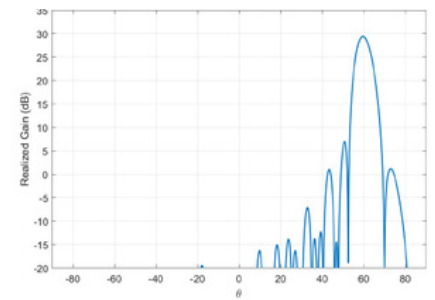
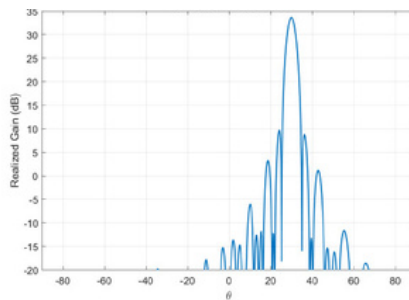
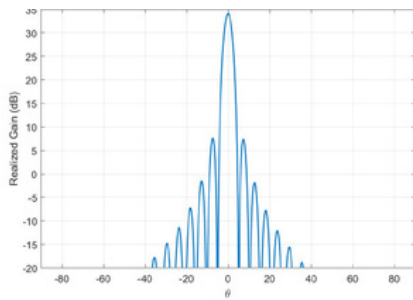
Dimensions (man-pack terminal) folded 50x28x44 cm,  
unfolded 104x10x44 cm

Terminal Weight incl. RF & Modem board 19 kg /42lbs

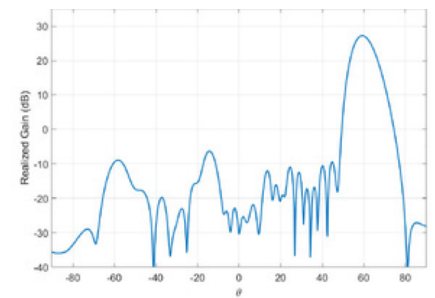
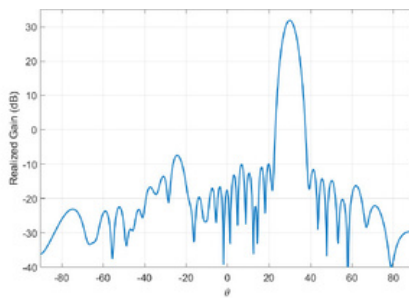
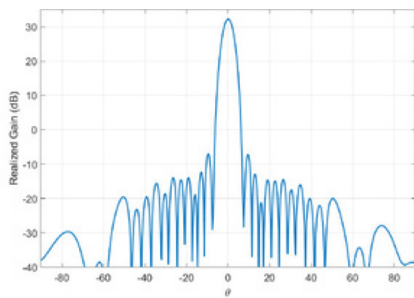
Terminal Weight with backpack 23 kg / 51 lbs Terminal

Weight with hard case 31 kg/68 lbs

### RESA Ka - Rx (20 GHz) – Electronic scanning



### RESA Ka - Tx (30 GHz) – Electronic scanning



Requitech develops state-of-the-art fully integrated systems and microwave components for radar and communications. Our goal is to deliver reliable and robust systems and work with our customers to find the most suitable solutions for each application.

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