



RESA S Ka

Requitech Electronically Scanned Antenna - fully integrated satellite terminal.

The RESA S is a fully integrated phased array flat panel antenna terminal suitable for Satcom-On-The-Move over LEO/MEO/GEO constellations. Designed as a lightweight member of the RESA family of flat panel satellite terminals, RESA S can be used as a stand-alone product or used in a mesh configuration with several RESA terminals. 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 operation.
- Modem integrated for internal or external installation.
- Ruggedized design for maritime operation.
- 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	11 dB/K
EIRP	43 dBW
Polarity	Circular polarization for both RHCP and LHCP
Side-lobe PDR Tx	FCC 25.218, ITU R S.468
Isolation Tx-Rx	90 dB
Tx XPD	25 dB
Rx XPD	25 dB

Electronic scanning specifications

Tracking error	< 0.05 dB
Beam update rate	100 Hz
Azimuth adjustment	360° pointing accuracy 0.05°
Elevation adjustment	0-60° from zenith, pointing accuracy 0.05°
Pointing stability	≤ 0.05°

Electrical specifications

Power Supply	24V 12A (280W)
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Interfaces

DC Power	MIL-DTL-5015 (2-pin)
Ethernet	RJ45

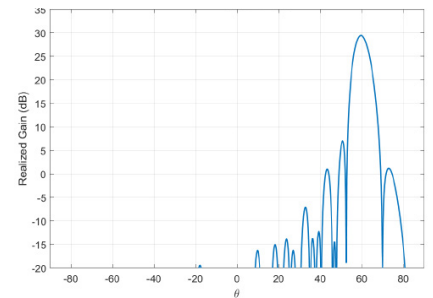
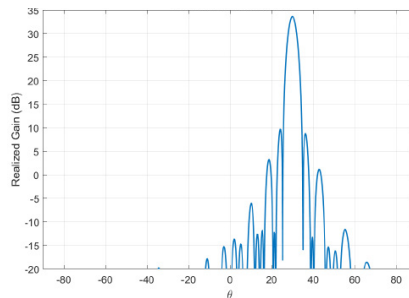
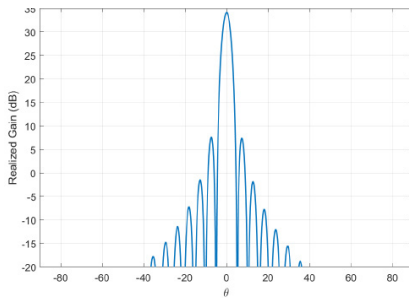
Environmental specifications

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

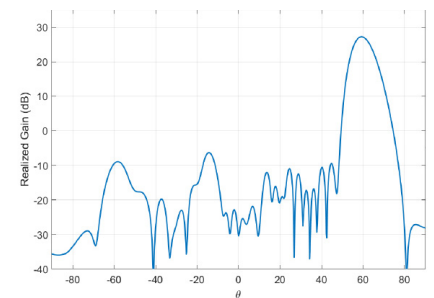
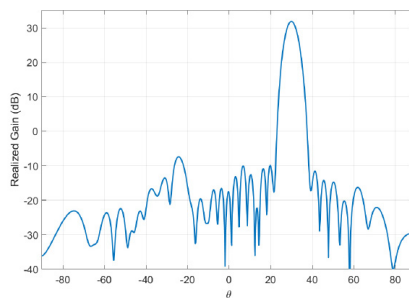
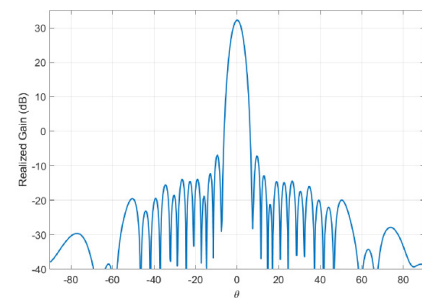
Weight and dimensions

Dimensions (terminal)	59 x 37 x 13 cm (WxLxH) 23 x 15 x 5 inches
Terminal Weight	15kg / 33 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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