



LESA BLADE ku

LESA Blade Ku band air terminal is a low-profile, fully electronically steerable antenna (ESA) with no moving parts. Designed for in-flight connectivity, the terminal enables short acquisition time, and allows for high dynamic tracking enabling best performance.

The Ku version includes a TX panel, RX panel, and an antenna management unit (AMU), allowing flexible installation options for different airborne applications. Supports Multi-Orbit, Multi constellation architectures, enabling switching from GEO to LEO instantly, in flight.

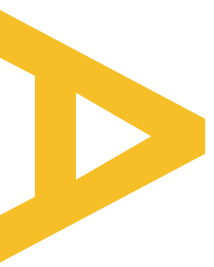
Tx Frequency	13.75-14.5 GHz
Rx Frequency	10.7-12.75 GHz
Polarization	V/H Linear/Circular SW controlled
Azimuth	Continues coverage over full 360°
Elevation	10° to 90° Electronically steerable antenna
Control Technique	Combined IMU / RSSI / GPS (Optional)
Velocity Azimuth	>500° / Sec. Elevation >500° / Sec
Initial Acquisition Time	<30 sec
Re-Acquisition time	<100ms
Management	Ethernet
Power Input	28V - Depend on configuration

Tx

Max EIRP	Power Consumption	Weight
46.5 dBW	285 W (P1dB)	12 Kg (26 lb.)

Rx

Max G/T	Power Consumption	Weight
11.5 dB / K	250 W (dual beam)	18 Kg (39.6 lb.)



Key Features



Multi orbit constellations

A simple and intuitive solution that provides multi-orbit SATCOM services, with the ability to blend and transfer network traffic seamlessly between high-capacity LEO (in KU only), MEO (in Ka only), and GEO satellite constellations.



Short transition time

Extremely short transition time. The significance of fiber-like connectivity is a major step forward for high-data-rate applications requiring communications mobility.



Worldwide satellite networks

Supports Global coverage networks, like Inmarsat Global Xpress, SES and Intelsat, for seamless satellite coverage anywhere, anytime.



Easy set-up and operation

The easy installation and integration of the terminals, allows operators to complete the process without the need for time-consuming and costly visits of technicians.



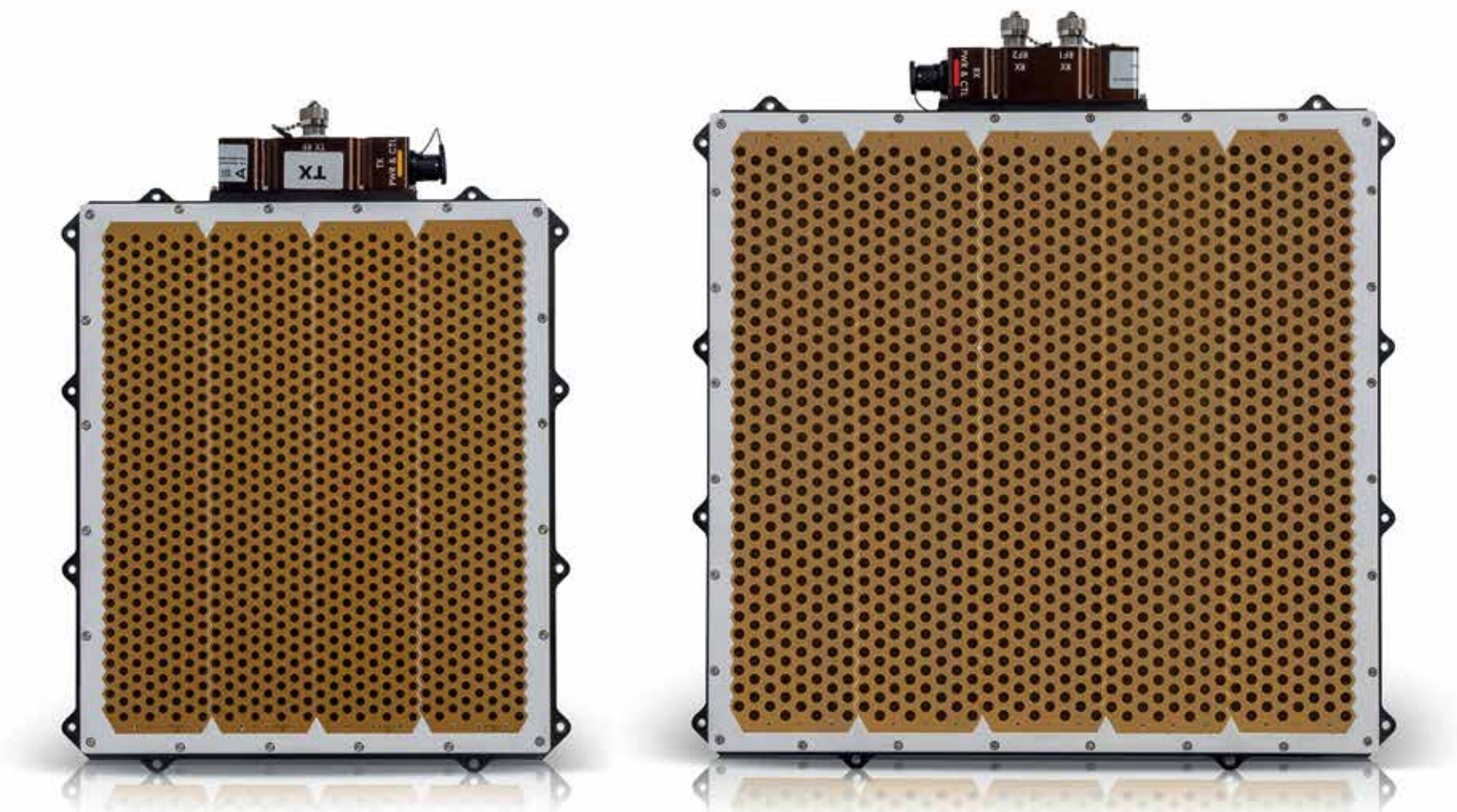
No moving parts

Since there are no moving parts, calibration is not required therefore providing long-term reliability and lower maintenance costs.



All In One Solution

Integrated terminals include everything needed for operation: modem, Antenna Control Unit (ACU), tracking sensors, downconverter, and a full RF front end.



In-flight connectivity

Supported by MoComm

The terminal leverages multi-orbit, multi-constellation architectures, allowing for instantaneous switching between GEO and LEO orbits while in flight.

This means passengers can enjoy a stable connection, whether they are surfing the web, streaming videos, or catching up on work, promising a flight experience