

OneSAT™

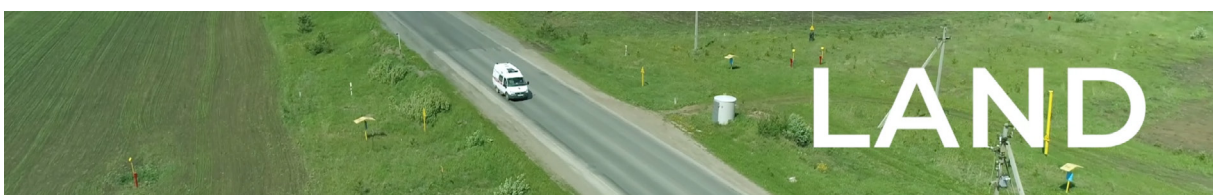
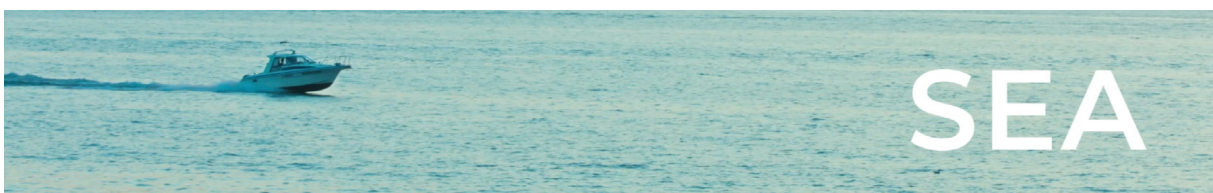
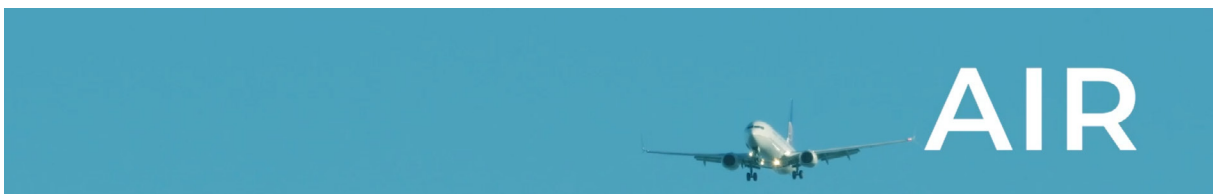
Broadband Mobility Solutions



Inverto's OneSAT™ flat panel terminals are a complete connectivity solution ready to provide on-the-go communications. The terminals are based on a cost-effective electronically steered multi-beam antenna design, boasting a low-profile, low weight, low power consumption and a built-in WiFi access point, offering a highly portable easy-to-use and easy-to-install product to provide seamless satellite broadband connectivity when and where you need it. The OneSAT™ product range consists of multiple antenna designs covering Ka and Ku bands and a variety of mobile broadband over satellite applications for maritime, vehicles and airplanes as well as fixed broadband services over satellite over LEO, MEO or GEO network constellations.

Main Features:

- Ka or Ku bands
- Best-in-class SWaP - perfectly suited for all "on the move" applications such as Land, Maritime or airplanes
- Ideal for fixed broadband communication over LEO, MEO or GEO networks for applications such as MNO towers, Oil & Gas
- All in one - Integrated terminal equipped with everything needed to get your connected including a Wi-Fi access point
- No moving parts providing long-term reliability and lower maintenance costs for all use case scenarios
- Easy set up – no calibration, self-tuning with fast signal acquisition time



Industries and applications

Government & Military

Easy to set up, portable, and robust due to the lack of moving parts make the OneSAT™ terminals ideal for reliable on-demand mobile satellite communications where and when they are needed such as first responders, intelligence community users, public safety operations or disaster and recovery teams for example.

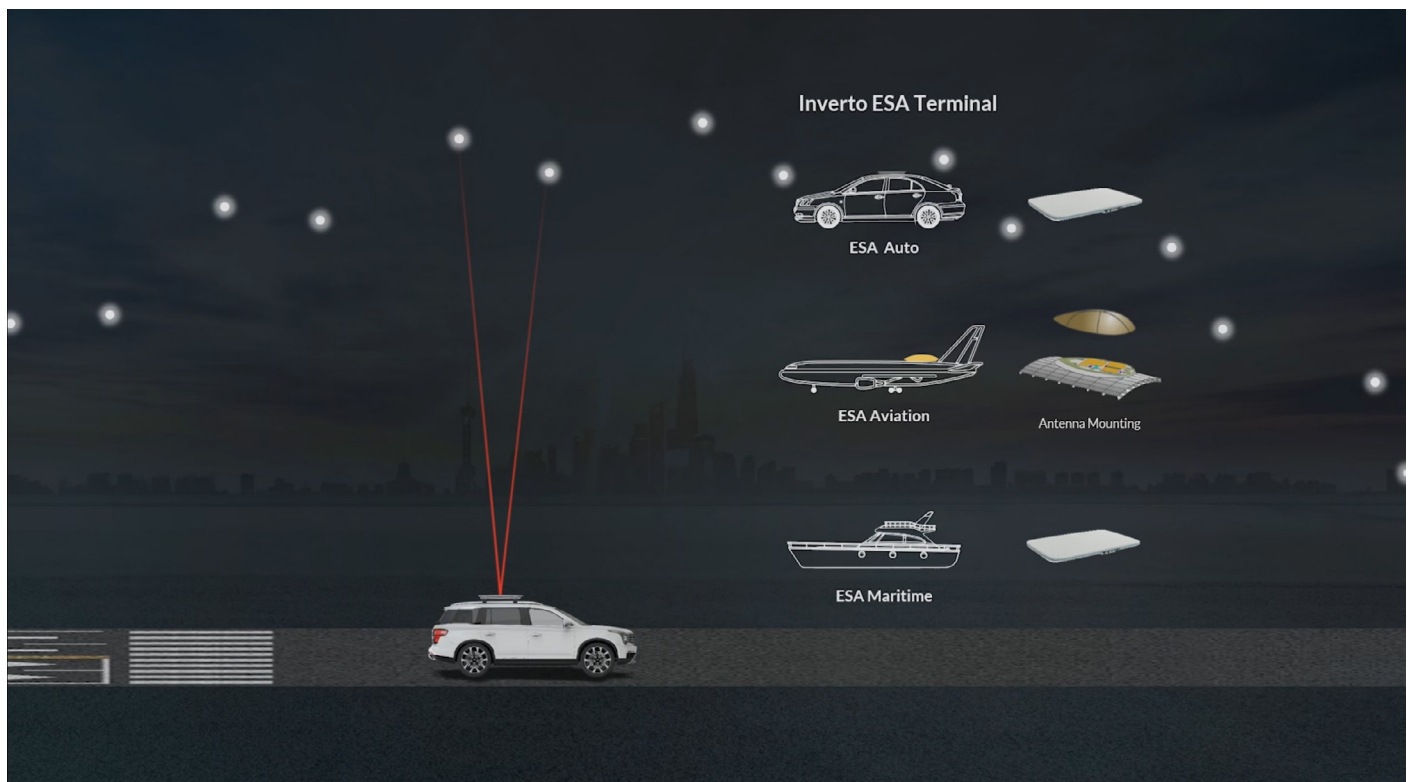
Land Mobility

Field proven low-power, low-profile and light terminals, ideal for mobile units and services or rural locations. Large agricultural crops, seas and oceans, forests and deserts are some of the locations that are best covered by satellite communications. Car vendors, for example, can beam software updates to cars, data backup to communications satellites, and deliver entertainment that are not possible with terrestrial networks. OneSAT™ terminals enable mobility customers such as airlines, train operators, trucking and coach companies to leverage the power of LEO, MEO and GEO satellite networks to ensure that their customers and remote users remain connected no matter where they are – be it mid-air, mid-ocean or in the most remote corners of the world.

Maritime

Digital transformation in the shipping industry is here! Shipping companies are exploring ways to leverage new technologies to improve the efficiency and productivity of their investments. Fleet owners are interested in applications that enable digitalization of their vessel operations through collecting, sharing and reusing operational data on board and at shore. Vessels opt to benefit from access to communications and content critical to safety and efficiency during even the roughest of seas. Passengers and crew are expecting the same connectivity on board as on shore. They want fast, reliable, easy to use Wi-Fi Access. Digital transformation is reinvigorating the shipping industry through new applications to streamline operations, customer experience, and efficiency to which reliable broadband connectivity as enabled by the OneSAT™ terminals is key.

LEO applications



Flat Panel Portable Ka Electronically Steerable Antenna Terminal

IONB-FAR001-05153-LFR

Item: 6225



Technical data

Band	Ka
Receiving frequency	17.8GHz ~ 20.2GHz
Transmission frequency	29.0GHz ~ 30.0GHz
Input frequency of medium frequency	1.40GHz ~ 2.40GHz
Output frequency of medium frequency	0.95GHz ~ 2.15GHz
Polarization mode	Circular polarization
G/T	9.5 dB/k
EIRP	48 dBW
Scanning angle off-axis angle	0-60°
azimuth angle	0-360°
Tracking accuracy	≤ 0.2 °
Input voltage	48 VDC
Power consumption	≤280 W (AVG)
Data ports	Ethernet / WiFi access point
Dimensions	530mm × 510mm × 70mm
Weight	≤11kg
Working temperature	-40° ~ 55°C
Storage temperature	-55° ~ 70°C
Relative humidity	10%~ 95% (35°C)
Protection standard	IP66

Flat Panel Cross Platform Ku Electronically Steerable Antenna Terminal

IONB-FAR001-H1065-LFR

Item: 6296



Technical data

Band	Ku
Receiving frequency	10.7GHz ~ 12.75GHz
Transmission frequency	13.7GHz ~ 14.5GHz
Input frequency of medium frequency	1.40GHz ~ 2.40GHz
Output frequency of medium frequency	0.95GHz ~ 2.15GHz
Polarization mode	linear polarization
G/T	12 dB/k
EIRP	46 dBW
Scanning angle off-axis angle	0-60°
azimuth angle	0-360°
Tracking accuracy	≤ 0.2 °
Multi-beam	Yes
Input voltage	48 VDC
Power consumption	≤450 W (AVG)
Data ports	Ethernet / WiFi access point
Dimensions	1000mm × 650mm × 70mm
Weight	≤25 kg
Working temperature	-40°~ 55 °C
Storage temperature	-55°~ 70 °C
Relative humidity	10%~ 95% (35°C)
Protection standard	IP66

Flat Panel Electronically Steerable Ku Antenna

IONB-FAR001-H6557-LGK

Item: 6448

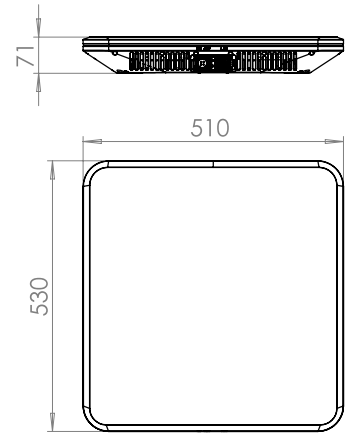


Technical data

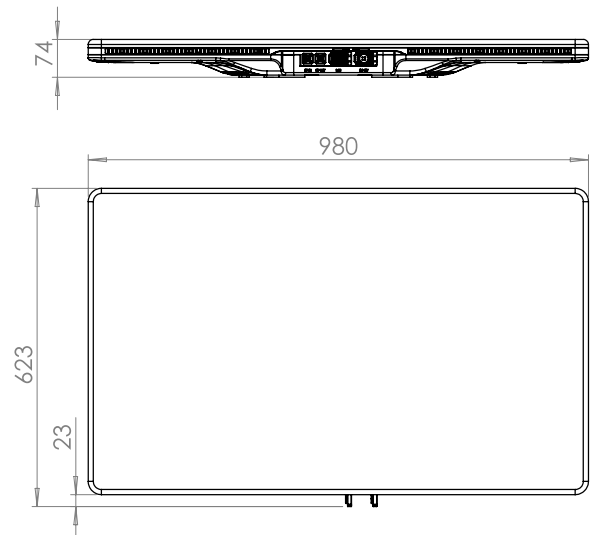
Band	Ku
Receiving frequency	10.7GHz ~ 12.75GHz
Transmission frequency	13.7GHz ~ 14.5GHz
LO Frequency	Tx: 12.8 GHz, Rx: 9.75/10.6 GHz
Tx IF	1.40GHz ~ 2.40GHz
Rx IF	0.95GHz ~ 2.15GHz
Polarization mode	linear polarization
Cross polarization isolation	30 dB @90°
G/T	>10 dB/K @90° @10.7GHz @80K
EIRP	>43 dBW @90° @14.1GHz typ.
Scanning angle off-axis angle	0-60°
azimuth angle	0-360°
Satellite tracking	Open AMIP
Tracking accuracy	≤ 0.2 °
Beam switch time	0.3 msec
Beam width (Tx / Rx)	5°@90°
First acquisition time / Re-acquisition time	< 30 sec / < 10 sec
Input voltage	28 VDC (24 - 32 VDC)
Power consumption	≤300 W (AVG)
RF / Control / Power supply Ports	SMA / Ethernet RJ45 / DC-in
Dimensions	665mm × 560mm × 55mm
Weight	≤12 kg
Working temperature	-40°~ 55 °C
Storage temperature	-55°~ 70 °C
Protection standard	IP66

Dimensions:

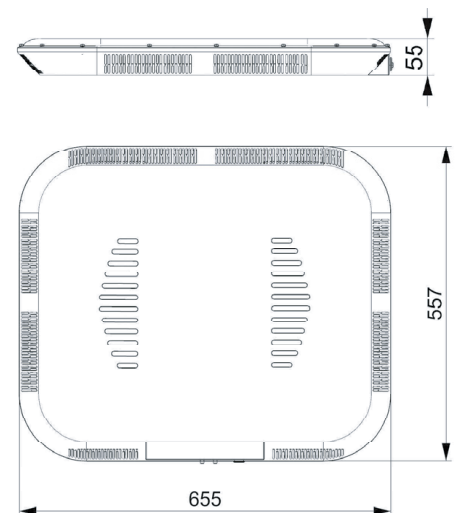
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IONB-FAR001-H1065-LFR
Item: 6296



IONB-FAR001-H6557-LGK
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For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and / or features without notice.

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