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1.25M MPOWER KA-BAND LAND FIXED USER TERMINAL



FEATURES

MPOWER KA-BAND LAND FIXED USER TERMINALS

The mP130 is the first reference user terminal which is able to utilize the mPOWER Medium Earth Orbit (MEO) satellite constellation. The mP130 is 125 cm reflector dual parabolic antenna with 3 axis stabilization platform ensuring seamless and uninterrupted connectivity during MEO handovers.

SEAMLESS, UNDISRUPTED CONNECTIVITY

The mP130 consists of dual dome for consistent connection with MEO satellite handovers. The proven tracking performance can be achieved by the precise technology which make the secondary antenna track a rising satellite before primary antenna loses a falling satellite. Also "Keyhole problem" avoidance design is implemented in the mP130. The antenna won't lose tracking even a satellite which is directly overhead.

BEST-IN-CLASS RF PERFORMANCE

The RF design is optimized to deliver best-in-class performance. Intellian's cutting-edge technology is able to put both the transmission components and the receiver components on only one package for high efficient and reliable performance. The advanced design ensures optimal performance, delivering an unparalleled user experience.

O3B MPOWER CONSTELLATION

O3b mPOWER is SES's next-generation MEO constellation which is designed for demanding application with mobility, telecom, government and enterprise customers. This service is capable to deliver thousands of uncontended managed services from hundreds of Mbps up to multiple Gbps per service.

QUICK & EASY INSTALLATION

Intellian mP130 is designed to be easy to install. Various install options are provided to suit the installation environment. The appropriate options are suggested depending on a power source type, a installation site and etc. The Installation Wizard provided by default, it helps to get quick and easy commissioning through step by step procedure and guide.

mP130

TECHNICAL SPECIFICATIONS

MECHANICAL SPECIFICATION

Radome Height	143.0 cm / 56.3"
Radome Diameter	150.0 cm / 59.1"
Reflector Diameter	125 cm / 49.2"
Weight	100.0 kg / 220.5 lbs
Azimuth Range	-330° to +330°
Elevation Range	8° to 90°
Cross-level Range	-8° to 8°

Angular Velocity	Azimuth	20°/sec
	Elevation	120°/sec²
Angular Acceleration	Azimuth	20°/sec
	Elevation	120°/sec²

RF SPECIFICATIONS

Tx Frequency	27.5 ~ 30.0 GHz
Tx Gain	49.0 dBi (w/o radome)
Rx Frequency	17.7 ~ 20.2 GHz
Rx Gain	46.0 dBi (w/o radome)
EIRP	61.3 dBW (Ka-band 20W)
G/T	21.4 dB/K (@19.0 GHz, EL 20 degrees)
Polarization	Circular (LHCP, RHCP)

ENVIRONMENTAL SPECIFICATIONS

Operational Temperature	IEC-60945 (-20°C to +60°C / Power On)
Storage Temperature	IEC-60945 (-40°C to +70°C / Power off)
Humidity	IEC-60068-2-30 Upper test Temp: +40°C (-3), Humidity 98% Lower test Temp.: +15°C (+3), Humidity 71% ~ 78%
Vibration	Survive a seismic (Horizontal 0.3G / Vertical 0.15G)
Operational Wind Resistance	56 km/h
Survival Wind Resistance	120 km/h
IP Ingress	IPX6 (IEC-60529)
Salt Mist	Saline solution: 5 ±1 % NaCl , PH6.5 to 7.2 Storage period: 7 Days (IEC-60945)

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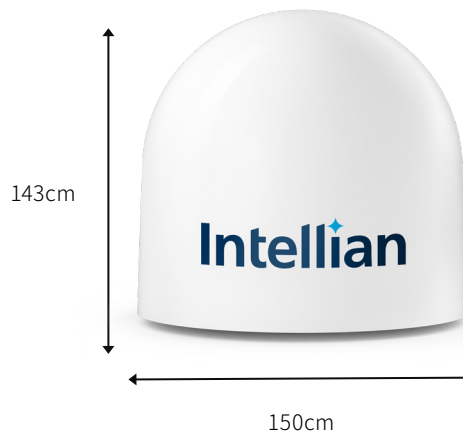
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SYSTEM DIMENSION



SYSTEM DIAGRAM

