Smartellite™ Dynamic

16x16 Ku-band

Satellite Terminal for On-the-Move Industrial IoT

hiSky's Smartellite™ Dynamic 16x6 Ku terminal is part of a unique line of satellite terminals that features innovative technology, enabling portable itinerant operations or fully mobile operations, for various applications required of Industrial IoT.

The terminals are ultra-slim, easy to mount, install, pair, and operate.
The Smartellite™ Dynamic 16x16 Ku terminal has unique state-of-the-art technology with a ruggedized design to be used by your driving workforce in harsh environmental conditions.
The terminal comprises a 16-by-16 element, electronically steerable, phased array antenna and a built-in modem, providing a mountable, single-unit solution, which independently & seamlessly directs low to high data rate communication through Ku-band frequencies over GEO satellites.
This exceptional ground terminal is a part of hiSky's agile IoT network, enabling on-the-move satellite services, including an easy-to-use, cloud-based management platform enabling data backhaul for actionable insights from anywhere on the planet.
The terminal offers hybrid connectivity introducing automatic Satellite & LTE switching capabilities, ensuring that users will always be connected and able to communicate, even in the most challenging environments.
This terminal, designed to meet the requirements of both LEO and GEO satellites, has the unique ability to switch between multi-orbit satellites, offering a range of Low-to-Hight Data Rate services, guaranteeing a future-proofed solution that will correlate with the market's connectivity demands.

Features

- Remote Display Access
- Process Data Transfer
- Software Download
- Machine Data Share
- VoIP Calls

Applications

hiSky's Smartellite™ network meets a growing demand for IoT connectivity across all remote industries:

- Fleet Management
- Agriculture
- Emergency Services
- Government
- Construction & Demolition
- Maritime
- Mining

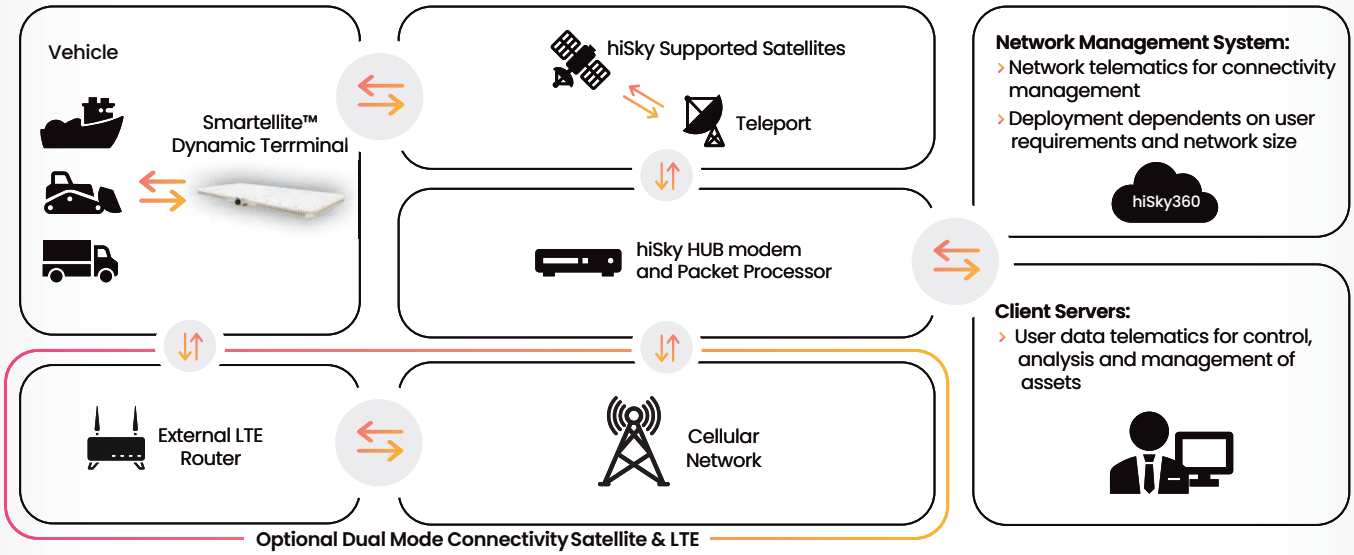
Agile IoT Network

hiSky's open architecture enables easy integration with any device or application provider that suits your business needs, and integrates with any existing network to complement your coverage in all rural areas worldwide.

User-side Component:
› Terminals receiving data from the end-user device/application

Satellite Component:
› Based on satellite provider and required operational coverage

Management Component:
› Data routing divided into network management and applicational data



Specifications

Frequency range	TX: 13.75~14.5GHz RX: 10.7~12.75GHz
Data capabilities	Typical Data Burst Rates GEO: 7-1500Kbps Typical data rate LEO: 0.5-20Mbps
EIRP	35 dBW @ 0deg scan 31.5 dBW @ 60deg scan
Gain	32 dBi @ 0deg scan 28.5 dBi @ 60deg scan
Noise figure	3.2dB
Polarization for TX & RX	V, H, RHCP, LHCP, Electronically controlled
Dimensions H / W / D	30 / 290 / 604 mm 1.18 / 11.41 / 23.77 inches
Weight	>6 Kg / ~13 lbs
User interface	LED (Status), Reset Button

Modem Specifications

Modulations	BPSK, QPSK
FEC	1/3, 5/12, 1/2, 2/3
Sensitivity	EB/N0<1.5dB@1/3

Environmental Conditions

Operational Temperature	-20°C to +55°C / -4°F to +131°F
Dust and water ingress	IP67
Vibration	SAE J1455
Salt spray	SAE J1455

Power

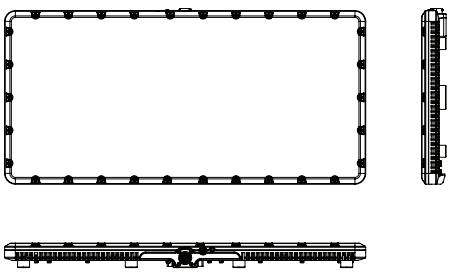
DC input range	12-24 VDC Pin Connector
Power consumption (typical)	Standby: <10W, Tx & Rx: <120W

Interfaces

Circular connector 14 pin	DC, Ethernet
Wireless	WiFi

Accessories

14 pin interface cable
Pole/Wall mounting kit
Car magnets mounting kit



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