Next-generation Satellite IoT Connectivity for
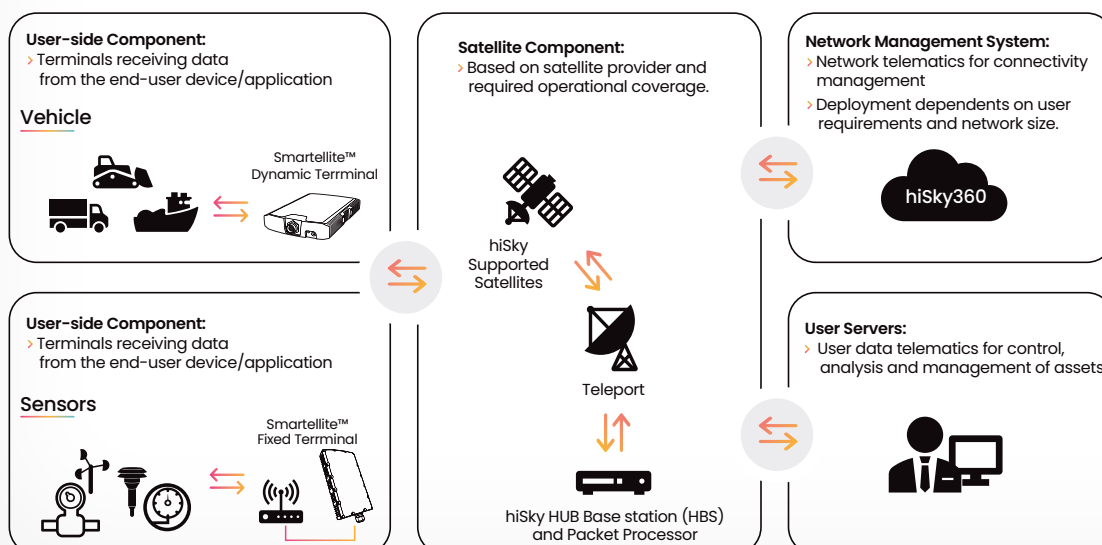# **Fleet Management**

hiSky's Smartellite™ terminals are designed to easily connect to any vehicle or smart mobile device, enabling coast-2-coast communications of voice, text & vehicle data telematics. Perfectly suitable for rural travel out of terrestrial communication services reach. The network comprises of functions and modules enabling any partner to deploy, operate and sell tailor-made Satellite Voice and IoT connectivity services, priced at a fraction of the market alternatives. Easy end-user configuration and installation make hisky's network (hardware & services) perfect for any complementary aftermarket.
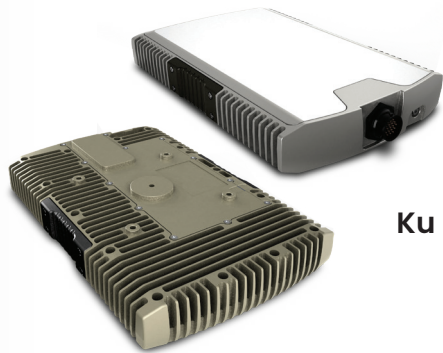
Features

- Lightweight & portable.
- Easily transferred between vehicles.
- Easily mounted (permanently or temporary)
- Voice and text from any personal smart device.
- Vehicle telematics for maintenance and tracking.

- Integrates with any sensory device or fleet management application provider.
- A hybrid Satellite-GSM solution which maximizes your network efficiency and minimizes your operational costs.

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

Vehicle

Smartellite™ Dynamic Terrminal

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

Sensors

Smartellite™ Fixed Terrminal

Satellite Component:
> Based on satellite provider and required operational coverage.

hiSky Supported Satellites

Teleport

hiSky HUB Base station (HBS) and Packet Processor

Network Management System:
> Network telematics for connectivity management
> Deployment dependents on user requirements and network size.

hiSky360

User Servers:
> User data telematics for control, analysis and management of assets.

Smartellite™ Dynamic

Ku 8X8

Ka 8X8

hiSky

hiskysat.com

Parameter	Ku 8X8	Ka 8X8
Transmit Frequency	13.75GHz – 14.5GHz	27.5GHz – 30GHz
Receive Frequency	10.7GHz – 12.75GHz	17.7GHz – 20.2GHz
Antenna Type	Electronically steered phased array	Electronically steered phased array
Scan Angles	-60° to 60°	-60° to 60°
EIRP @90°>	21dBW	20dBW
EIRP @30°>	17.5dBW	17.5dBW
Antenna Gain Rx & Tx@90°>	21dBi	20dBi
Antenna Gain Rx & Tx@30°>	17.5dBi	17.5dBi
Noise figure	3dB	3dB
Polarization for TX & RX	Linear H/V	Circular (R/L,R/R,L/R,L/L)
Communication Interfaces	Ethernet, WI-FI, BLE, Serial	Ethernet, WI-FI, BLE, Serial
Sleep power consumption	0.1W	0.1W
Idle power consumption	8W	8W
Rx only power consumption	18W	18W
Tx & Rx power consumption	40W	30W
Input Voltage Range	12 - 24VDC	12 - 24VDC
Operational Temperature	-20°C to +55°C *	-20°C to +55°C *
Dimensions (mm): H / W / D	42 / 286 / 187	42/ 244 / 141
Weight	2.2 Kg	1.4 Kg
Dust and water ingress	IP67	IP67
Vibration	SAE J1455	SAE J1455
Salt spray:	SAE J1455	SAE J1455
Certifications	CE, FCC	CE, FCC