



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

Today's state of the art Internet of Things (IoT) advancements enable operational efficiency and increased growth for all remote infrastructure management. Specifically, Remote Tower Management Systems equipt telecom service providers with the infrastructure to monitor, manage, control, and protect their telecom towers through sensors and smart devices, monitoring all tower functions 24/7/365.

hiSky offer's an IoT network designed to enable visibility, control, and better management of tower infrastructure over satellite. hiSky's unique technology enables transmission of all needed data on Ka/Ku-band frequencies over GEO satellites, offering tower management companies service costs unmatched in the industry.

## Features

hiSky's Smartellite™ network meets a growing demand for IoT connectivity, answering the industry challenges and offering online monitoring and control of power supply, cabin environment and tower safety and security. hiSky's IoT-over-satellite network is constructed and designed uniquely, offering: > Easy installation of ground antennas.

- > Quick integration with any Remote Tower Management System (RTMS) of your choice.
- > IoT fitted low costs for vast networks.
- > On-cloud or On-premises deployment according to customer needs.
- > Fully commercial, in-market, equipment and network management system (NMS).

## 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.





## Smartellite™ Dynamic





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