



## Next-generation Satellite IoT Connectivity for **Agriculture & Smart Farming**

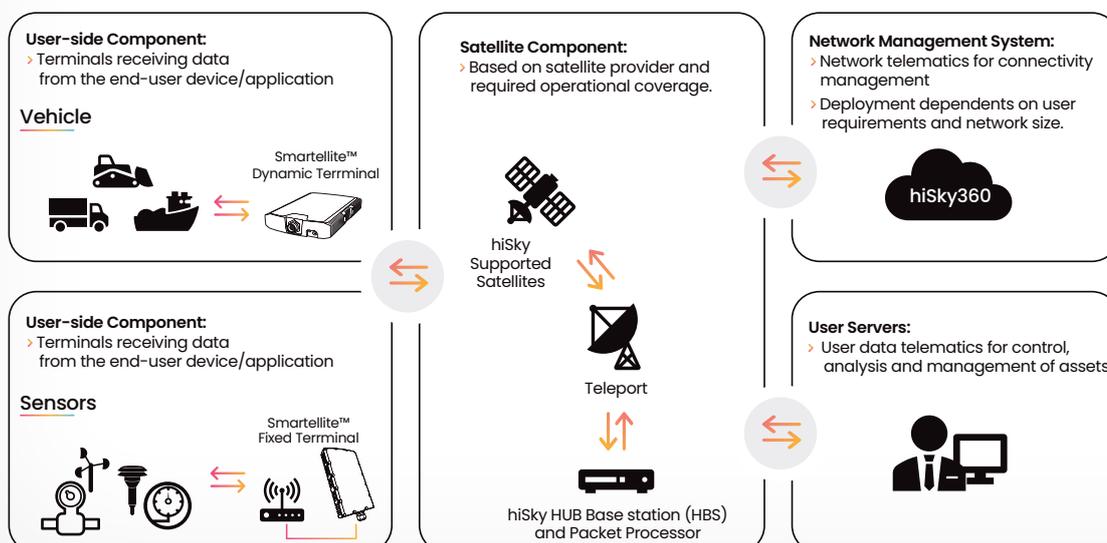
In a connected world, IoT systems have become crucial to the farming & agriculture industries. Today's farmers require constant and continuous connection and communication with their assets and field monitoring systems, including environmental monitoring, automatic irrigation systems, harvest management and power consumption of machines and facilities. hiSky's Smartellite™ terminals provide a real time connectivity solution to the growing demand for data analysis, control and monitoring for precise agriculture in remote locations.

### Features

- > Easily mounted (permanently or temporary).
- > Voice & text from any personal smart device.
- > Vehicle telematics for maintenance and tracking.
- > Integrates with any sensory device or management application provider.
- > Real-time field environmental conditions.
- > Automatic irrigation control & monitoring systems.
- > Greenhouse management.
- > Open field management.
- > Monitoring of power consumption / production of solar panels.
- > Harvest & crop management.
- > Supports anti-theft-vandalism security systems.
- > Monitoring & tracking of light / heavy machinery.

### 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



**Ku 8X8**



**Ka 8X8**

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