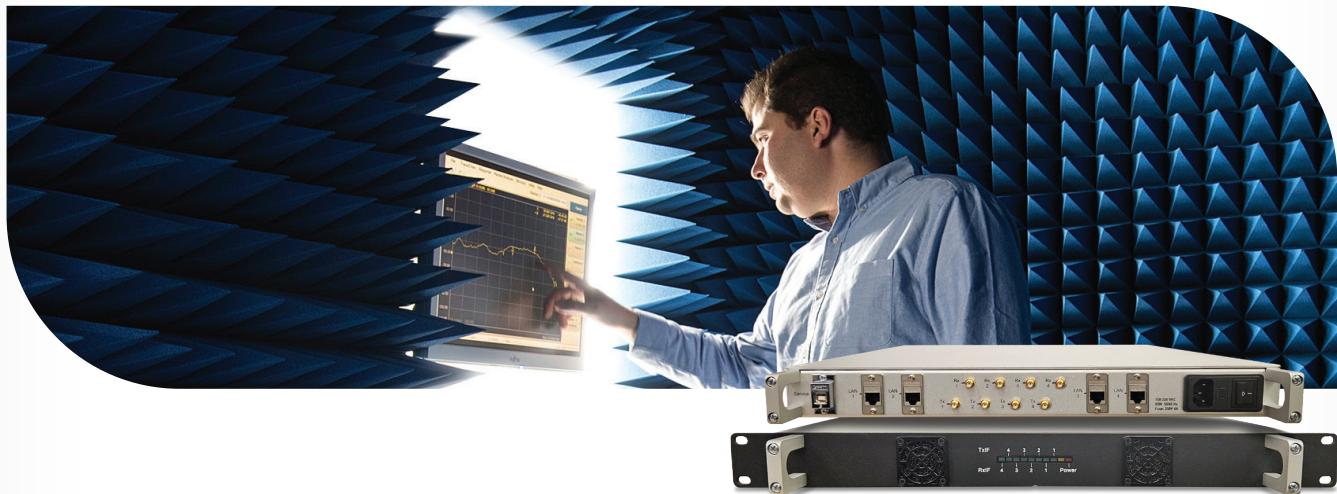


# hiSky HUB System



## hiSky HUB modem

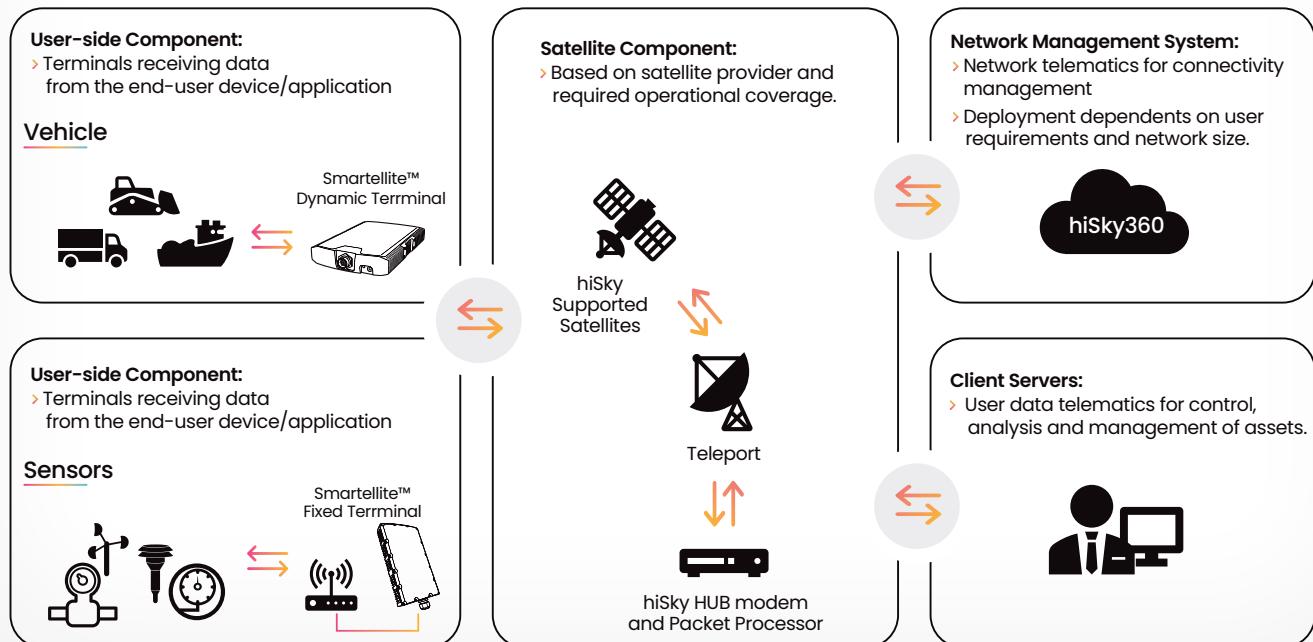
hiSky's HUB modem implements the hub side modem of the hiSky system. Each HUB modem unit supports multiple separate modem channels and connects to the teleport RF equipment (BUC/LNB) via separate Tx/Rx IF interfaces, and to the hiSky data server (Packet Processor) via Ethernet interface.

## hiSky Packet Processor

hiSky Packet Processor (PP) is a data server implementing all networking protocols interfacing between the Satellite and User domain. The PP can support several Hub modems and interfaces to the hiSky NMS via Ethernet connection.

## 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.



## Specifications:

Parameter	Value
Symbol Rate Range Low performance HBS	22 Ksps to 3 Msps
Symbol Rate Range High performance HBS	22 Ksps to 15.625 Msps
Spread Factor	1 to 64
Waveform	hiSky proprietary
Modulation Type	BPSK
FEC	1/3
Rx Eb/No	1.5dB @ FEC 1/3
Alpha (Rolloff)	20% or 35%
Management	Ethernet port
Frequency Range	950MHz to 2500MHz
IF Tx Output Power	-8dBm to -70dBm
IF Tx Harmonics and Spurs	< -90dBm
IF Rx Maximum Total Input Power	0dBm
Frequency Stability	Internal, stability $\pm$ 0.1 ppm
Impedance / Connector	50 $\Omega$ , SMA female

## Environmental and Physical:

Parameter	Value
Operating Temperature	0 to 35°C (32 to 95°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Humidity	95% maximum, non-condensing
Power Supply Input	100-240 VAC 47/60 Hz
Max Power Consumption	<65W
Dimensions (1RU) (height x width x depth)	1.75" x 19" x 19" (48 x 48 x 4.4 cm)
Weight	6.6 lbs (3 kg)
AC Receptacles	IEC-60320-1

## Hub Interfaces:

Parameter	Value
Tx IF Port 1-4	SMA
Rx IF Port 1-4	SMA
Service Port	USB Type-B
Ethernet Port 1-4	RJ45



Compliance with  
IEC 60950-1

## Accessories:

Low Pass filter

**Note!** In case the L-Band Tx Frequency is between 950MHz to 1200MHz an additional Low pass Filter is required to be connected between the Hub Tx port and the RF cable going to the BUC.  
The supplied Low pass Filter is bi-directional and has two female-SMA ports.