

HiSKY delivers private, sovereign satellite networks that keep critical platforms connected and in command - anywhere, under any conditions.

HiSKY

HUB Base Station (HBS) System

P/N: ARK_HUB4CHP_GN

The Hub Base Station (HBS), part of SmartLITE and ForceLITE family combines the Packet Processor and modem at the ground site to connect the HiSKY systems to the customer's application servers over an IP network. It manages packet transmission and reception, terminal configuration, and network monitoring, while synchronizing the terminals to the network.

HUB Modem



P/N: HSK_HBS_1U4CHP_XXXX

HiSKY's HUB modem implements the hub side modem of the HiSKY system. Each HUB modem unit supports up to 4 modem channels simultaneously 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.

Packet Processor



P/N: HSK_HBS_SRVRIU

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

Modem Specifications

Modulations	BPSK
FEC	1/3
Sensitivity	$E_b/N_o < 1.5 \text{ dB @ FEC} = 1/3$
Spread Factor	1 to 256
Frequency range	950 MHz to 2500 MHz
Data capabilities	Typical data rate: 1-2000 kbps
IF Tx Output Power	-8 dBm to -70 dBm
IF Tx Harmonics and Spurs	< -90 dBm
IF Rx Maximum Total Input Power	0 dBm
Receiver lock time	< 50 msec
Alpha (Rolloff)	20% or 35%
Frequency Stability	Internal stability $\pm 0.1 \text{ ppm}$
Impedance / Connector	50 Ω , SMA female
Dimensions (IRU) H / W / D	1.75 x 19 x 19 inches 4.4 x 48 x 48 cm
Weight	3 kg / 6.6 lbs
User interface	4 LED (Status)
Certifications	IEC 60950-1

Power

DC input range	100-240 VAC 50/60 Hz
Power consumption (typical)	< 65W

Interfaces

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

Environmental Conditions

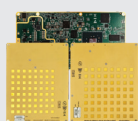
Operating Temperature	0 to 35°C (32 to 95°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Humidity	95% maximum, non-condensing

Compliance with IEC 60950-1

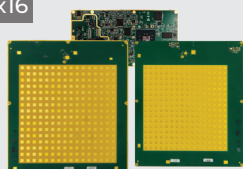
SmartLITE/ForceLITE System

The SmartLITE/ForceLITE System enables to establish a private, sovereign network architecture while choosing the right terminal, suited for your platform, from small UAVs to loitering munitions and long-range manned systems.

8x8

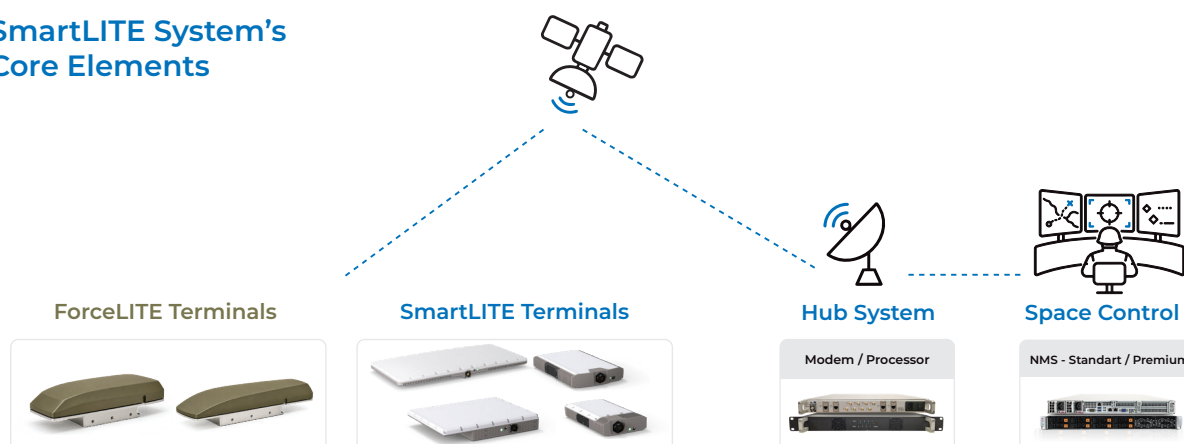


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- Low Size, Weight, and Power (SWaP)
- End to End System - connect HQ to all your platforms
- Sovereign Network capability
- Private Network - complete control and security of all data transmissions
- Low Probability of Detection, Low Probability of Interception
- Proven operational track record
- Customized Integration for various platforms

SmartLITE System's Core Elements



Technology Trusted by Industry Leaders

KRATOS

ST Engineering
powered by
Newtec **iDIRECT**

INTELSAT
Now Part of SES

SES

esa
European Space Agency

HUGHES

SPACECOM

UK SPACE AGENCY

SDF
صندوق تنمية
القطاعات الاستراتيجية

nokiawave