

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

SmartLITE

SIRIUS^{16X16 Ku}

Secure satellite communication and control for small, long range, manned and unmanned platforms.

As the largest aperture in the SmartLITE system, SIRIUS delivers the highest throughput and link margin in the line - built for platforms that need broadband-grade satcom without sacrificing size, weight, or covertness.



P/N: HSK_DKU16SL_XXV1

Specifications

Frequency range	TX: 13.75-14.5 GHz RX: 10.75-12.75 GHz
Data capabilities	Typical data rate GEO: 7-2000 kbps Depends on satellite resources
Duplexing Mode	FDD
EIRP	Typical: 28 dBW @ 0° scan Typical: 26 dBW @ 60° scan
G/T	Typical: >0 dB/K @ 0° scan Typical: >-3 dB/K @ 60° scan
Tx & Rx polarization	V, H, Electronically controlled
Receiver lock time	< 50 msec
Dimensions H / W / L	42 / 604 / 290 mm 1.65 / 23.78 / 11.42 inches
Weight	6 Kg / 13.23 lbs
User interface	One LED (Status), 1 Reset Button
Certifications	CE, FCC

Modem Specifications

Modulations	BPSK
FEC	1/3
Sensitivity	$E_b/N_o < 1.5 \text{ dB @ FEC} = 1/3$

Environmental Conditions

Operational Temperature	-20 °C to +55 °C / -4 °F to +131 °F
Dust and water ingress	IP67
Vibration	SAE J1455
Salt spray	SAE J1455

Power

DC input range	12-34 VDC Pin Connector
Power consumption (typical)	Standby: < 10W, Tx & Rx: < 105W

Interfaces

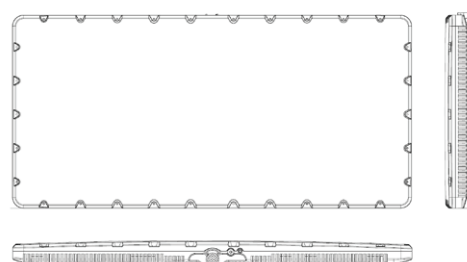
Circular connector 14 pin	DC, Ethernet, Wake up I/O
Wireless	Wi-Fi, GNSS

Supports two modes of operation:

- External platform data input (position, attitude, and velocity) via software ICD
- Internal data utilization (embedded navigation data)

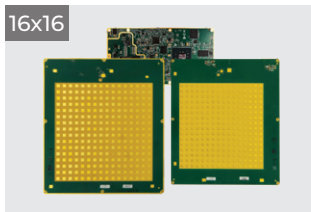
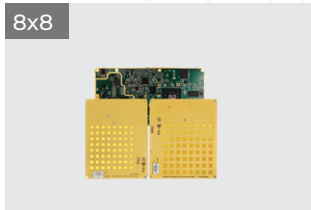
Accessories

14 pin interface cable
Car magnets mounting kit



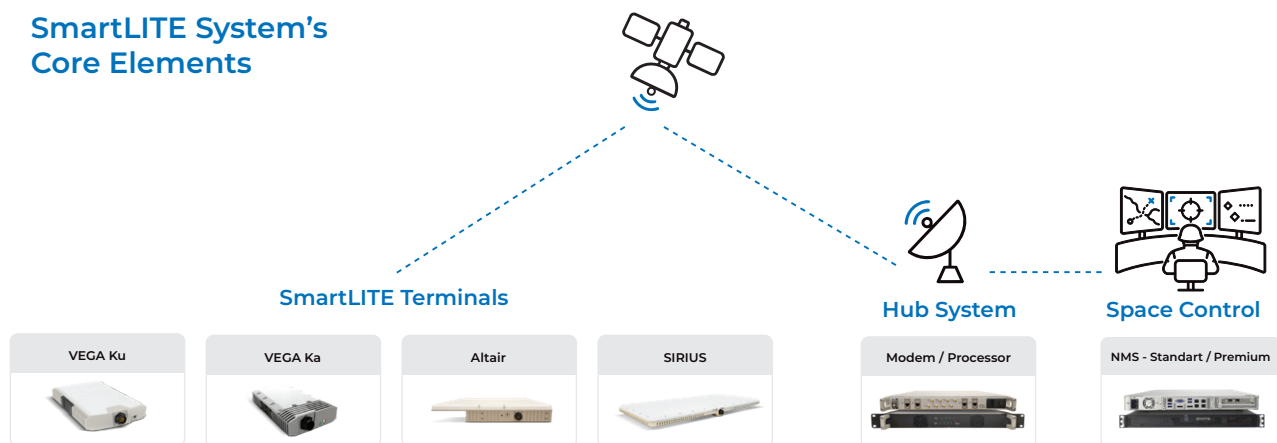
SmartLITE Terminals

The SmartLITE family enables you to establish a private, sovereign network architecture while choosing the right terminal (SIRIUS, ALTAIR, VEGA) best suited for your platform, from small UAVs to loitering munitions and long-range manned systems.



- ▶ 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