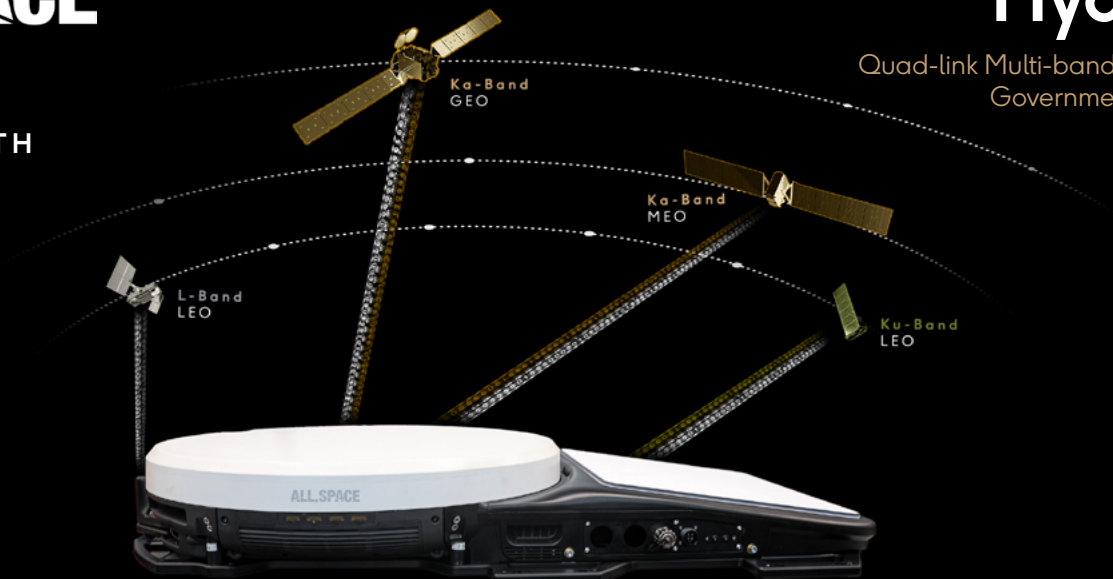


ALL.SPACE

DELIVERING
NETWORK
RESILIENCE WITH
INTELLIGENCE

Hydra 4

Quad-link Multi-band Terminal for
Government & Defense



**Gain the battlefield advantage with the
most advanced MilSatCom terminal**

Hydra 4 is a multi-link, multi-band, multi-orbit MilSatCom mobility terminal, delivering unmatched resilience, agility, and secure connectivity for critical missions. Capable of simultaneous links to four satellite networks, it ensures jam-resistant, high-bandwidth communications across GEO, MEO, and LEO orbits.

Integrating an ALL.SPACE Hydra 2 Ka-band terminal, a Ku-band LEO terminal, and a L-band data gateway into a single platform provides the most redundant PACE (Primary, Alternate, Contingency, Emergency) plan. Hydra 4 guarantees assured communications for mission command systems while on the move in contested environments.

KEY FEATURES

- ✓ **Simultaneous Four Full Performance Links**
Deliver multiple services concurrently and connectivity options for total mission assurance
- ✓ **Multi-orbit Connectivity**
Operation across concurrent GEO, MEO and LEO orbits for unrivaled flexibility and resiliency
- ✓ **Multi-band Terminal**
Supports Mil-Ka, Commercial-Ka, Ku-band and L-band frequencies as standard
- ✓ **Integrated Modems**
Multi-purpose bays for optional configurations tailored to each mission at Ka-band
- ✓ **Inherently Resistant to Jamming at Ka-band**
Resilient to unintentional or intentional interference due to lens-array beamforming
- ✓ **Solid-State, Class Leading Performance Over Scan**
All-electronic, multi-link, multi-band terminal to allow always-on connectivity in the harshest mobility environments



Hydra 4

TECHNICAL SPECIFICATIONS

(As of July 2025; Subject to Change)



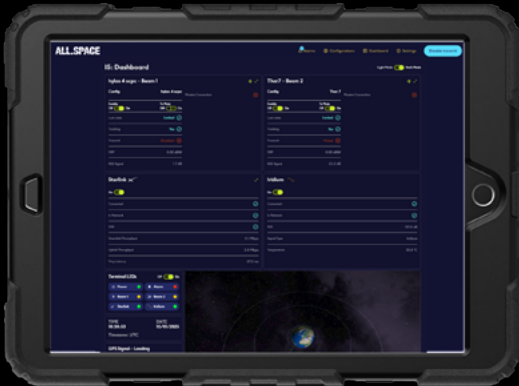
PHYSICAL	Size	86 cm width x 150 cm length x 20 cm height / 34"x 59"x8"
	Weight (with 2x external modem pass-through bays at Ka)*	120 kg (265 lb)
	Field of View	±70° Scan, 360° Az
DUAL KA-BAND LINKS	Supported Orbits	MEO & GEO
	Supported Networks	SES O3b mPOWER, GX Category 4, Ka GEO HTS
	Supported Modems	iDirect 950mp, Comtech 5650 A/B, Gilat (mPower) OpenAMIP-controlled (mPower), Generic L-band modem
	Supported Simultaneous Ka-band Full Duplex Links	2
	Xpol Discrimination	> 20 dB
	Tx Performance 27.5 GHz to 31.0 GHz	50 dBW Max EIRP Per Link (@ P1dB) 125 MHz Max IBW Per Link
	Rx Performance 17.7 GHz to 21.2 GHz	12 dB/K Max G/T Per Link 125 MHz Max IBW Per Link
KU-BAND LINK	Supported Orbit	LEO
	Supported Network	Starlink
	Supported Performance	>100 Mbps Rx/20 Mbps Tx
L-BAND LINK	Supported Network	Iridium LEO (SkyLink 8W power, up to 88 kbps DL/22 kbps UL)
INTERFACE	Input Power	Internal: 100-240VAC, 50/60Hz, 1900W Max
	Power Consumption (TYPICAL)**	1 Link: 700 W, 2 Links: 1000 W, 4 Links: 1200W
	Modem Options	External or Internal
	Network	Ethernet
ENVIRONMENT & COMPLIANCE	Operating Temperature	-40°C to +55°C (-30°C to +50°C at Ku)
	Certifications (In Progress)	FCC, CE and RoHS

* Final weight depends on terminal configuration
** Power consumption per terminal depends on operating mode and duty cycle

TERMINAL OPTIONS

for optional configurations to each and every mission

- STANDARD MODEL INCLUDES
- 2 x External Modem Pass-Through Bays
 - AC Power Supply Unit
 - Web Based GUI
 - Standard Cable, Accessories Kit & Pallet Transport Box



INTUITIVE GUI

- ADDITIONAL OPTIONS
- 3 x Swappable Multi-Purpose Bays for Integrating a mix of Modems
 - Mounting Kits



MULTI-PURPOSE BAY

TERMINAL CERTIFICATIONS (In Process)	Hydra 4 is certified on SES's Ka-band GEO and O3b mPOWER Ka-band MEO constellation, Starlink Ku-band LEO constellation, Iridium L-band LEO constellation and will be certified on Viasat Global Xpress, and Ka-band GEO HTS.
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For more information, contact: sales@all.space | WWW.ALL.SPACE

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