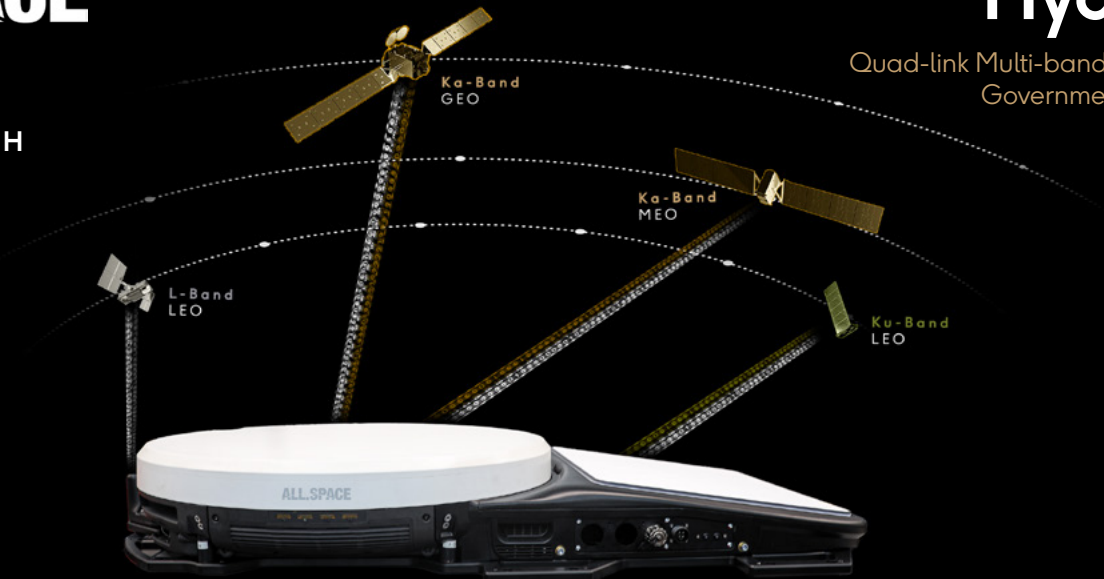


# ALL.SPACE

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**  
Delivers multiple services concurrently and connectivity options for total mission assurance
- ✓ **Multi-Orbit Connectivity**  
Operations 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 digital 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 March 2026; Subject to Change)



<b>PHYSICAL</b>	Size	86 cm WIDTH x 150 cm LENGTH x 20 cm HEIGHT / 34" x 59" x 8"
	Weight (with 2x external modem pass-through bays at Ka)*	120 kg ( 265 lb)
	Field of View	±70° Scan, 360° Az
<b>DUAL KA-BAND LINKS</b>	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
<b>KU-BAND LINK</b>	Supported Orbit	LEO
	Supported Network	Starlink
	Supported Performance	> 100 Mbps Rx / 20 Mbps Tx
<b>L-BAND LINK</b>	Supported Network	Iridium LEO (SkyLink 8W power, up to 88 kbps DL / 22 kbps UL)
<b>INTERFACE</b>	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
<b>ENVIRONMENT &amp; COMPLIANCE</b>	Operating Temperature	-40°C to +55°C (-30°C to +50°C at Ku)
	Certifications (In Progress)	FCC, CE and RoHS

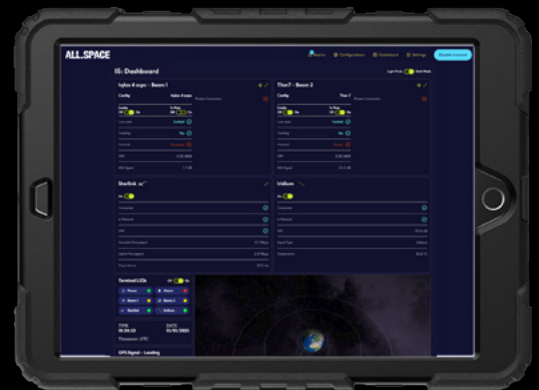
\* Final weight depends on terminal configuration

\*\* Power consumption per terminal depends on operating mode and duty cycle

## TERMINAL OPTIONS

for optional configurations to each and every mission

- |                                |  |
|--------------------------------|--|
| <b>STANDARD MODEL INCLUDES</b> | <ul style="list-style-type: none"><li>• 2 x External Modem Pass-Through Bays</li><li>• AC Power Supply Unit</li><li>• Web Based GUI</li><li>• Standard Cable, Accessories Kit &amp; Pallet Transport Box</li></ul> |
|--------------------------------|--|



INTUITIVE GUI

- |                           |  |
|---------------------------|--|
| <b>ADDITIONAL OPTIONS</b> | <ul style="list-style-type: none"><li>• 3 x Swappable Multi-Purpose Bays for Integrating a mix of Modems</li><li>• Mounting Kits</li></ul> |
|---------------------------|--|



MULTI-PURPOSE BAY

## TERMINAL CERTIFICATIONS

(In Process)

Hydra 4 is certified on SES's Ka-band GEO and O3b mPOWER Ka-band MEO constellation, Viasat Global Xpress (GX Category 4), Starlink Ku-band LEO constellation, Iridium L-band LEO constellation and will be on additional Ka-band GEO HTS.



For more information, contact: [sales@all.space](mailto:sales@all.space) | [WWW.ALL.SPACE](http://WWW.ALL.SPACE)

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