



CARRIER · TETHERED PERSISTENCE

HX8 TETHER

Uncompromising heavy-lift meets virtually limitless flight duration — powered by the LEAP Solo 5K for continuous power and secure gigabit data.



21 LBS
MAX PAYLOAD

24 HR
FLIGHT TIME

5 KW
CONTINUOUS POWER

30 GBPS
SECURE DATA

400 FT
MAX ALTITUDE AGL



CARRIER HX8 TETHER.

The Carrier HX8 Tether is not just a drone — it is a complete, persistent aerial infrastructure. Merging the extreme redundancy of the HX8 coaxial octocopter with the 5,000 W continuous power of the LEAP Solo 5K, operators maintain uninterrupted airborne operations for up to 24 hours.

Housed in rugged, highly portable cases, the entire ecosystem is engineered for rapid two-person deployment across the most demanding industrial, scientific, and military applications.

ENDURANCE PERSISTENT FLIGHT

24 HR

Continuous airborne overwatch on 5 kW shore-fed power — hold station without landing to recharge.

| 5 KW CONTINUOUS | 400 FT AGL

| 30 GBPS SECURE

02 - SYSTEM HIGHLIGHTS

| | | | | |
|---|--|--|---|--|
| <p>21 lbs</p> <p>MAX PAYLOAD</p> | <p>24 hr</p> <p>FLIGHT TIME</p> | <p>5 kW</p> <p>CONTINUOUS POWER</p> | <p>30 Gbps</p> <p>FIBER DATA</p> | <p>Fly-by-Tether</p> <p>RF-DENIED READY</p> |
|---|--|--|---|--|

03 - SYSTEM ARCHITECTURE

GROUND-TO-AIR ARCHITECTURE.

THREE INTEGRATED NODES - PERSISTENT · SECURE · MISSION-CRITICAL

| | | |
|---|--|---|
|  |  |  |
| <h3>HX8 + AC-DC</h3> <p>NODE 01 · AIRBORNE</p> <p>TETHERED AERIAL UNIT</p> <ul style="list-style-type: none">21 lbs Payload CapacityX8 Coaxial PropulsionUp to 400 ft AGLOnboard AC-DC Converter | <h3>TETHER & POWER</h3> <p>NODE 02 · HYBRID TETHER</p> <p>LEAP SOLO 5K</p> <ul style="list-style-type: none">5,000 W ContinuousAuto-Tensioning Winch2-3 Fiber · 20-30 Gbps220 VAC Shore Input | <h3>ELECTRONICS BAY</h3> <p>NODE 03 · GROUND</p> <p>MISSION CONTROL RACK</p> <ul style="list-style-type: none">8U / 10U / 12U RackIntegrated Data RouterSat / LTE / Microwave BackhaulWeatherproof Display |

TWO-PERSON DEPLOYMENT · 220 VAC SHORE OR GENERATOR · USAS LEAP SOLO 5K

SPECIFICATIONS
TECHNICAL SPECIFICATIONS.
A POWER & TETHER SYSTEM

| | | | |
|------------------|---------------------------------------|-----------------|---------------------------|
| INPUT POWER | 220 VAC (Shore · Generator · Vehicle) | TETHER LENGTH | 400 ft AGL Max (122 m) |
| CONTINUOUS POWER | 5,000 W | ACCESSORY POWER | 48 V Integrated Bay |
| PROPULSION POWER | 50-60 VDC (12S) | TETHER PARTNER | USAS LEAP Solo 5K |
| TETHER CONTROL | Automatic Motor-Controlled Winch | DEPLOYMENT | Two-Person · Rugged Cases |

B AIRFRAME & PERFORMANCE

| | | | |
|---------------------|------------------------------------|-----------------------|------------------------------------|
| AIRFRAME | Carrier HX8 (X8 Coaxial, Foldable) | DEPLOYED (TIP-TO-TIP) | 2,425 mm · 95.5" |
| MAX SPEED | 33.6 mph · 14 m/s | DEPLOYED HEIGHT | 645 mm · 25.4" (Collapsible) |
| MAX PAYLOAD | 21 lbs · 9.5 kg | EMPTY WEIGHT | 9.8 kg · 21.5 lbs |
| MAX TAKEOFF WEIGHT | 55 lbs · 25 kg | OPERATING TEMP | -29 °C to 49 °C · -20 °F to 120 °F |
| MOTORS / PROPELLERS | 8x KV100 · 28.2" x 9.2" | | |

C COMMAND, CONTROL & SAFETY

| | | | |
|-------------------|--------------------------------|-----------------------|-----------------------------------|
| FLIGHT CONTROLLER | Cube Orange (Custom ArduPilot) | PROPULSION REDUNDANCY | X8 Coaxial |
| RADIO FREQUENCIES | 2.4 GHz ISM · 902-928 MHz | FLIGHT TRACKING | ADS-B Receiver |
| GNSS | Dual RTK GNSS | TELEMETRY | Real-Time Voltage & Current |
| IMU REDUNDANCY | Triple Redundant IMU | GROUND CONTROL | C-GCS / C-NAV / C-SRoC / HereLink |
| | | COMPLIANCE | NDAA Compliant |

D DATA & CONNECTIVITY / PAYLOAD

| | | | |
|--------------------|---|---------------------|------------------------------------|
| LINK TYPE | Fly-By-Tether (RF-Denied Ready) | RACK OPTIONS | 8U / 18U / 12U Shock Mount |
| DATA THROUGHPUT | 2 Fibers (20 Gbps) / 3 Fibers (30 Gbps) | MOUNT TYPE | Dampened Modular Quick-Release |
| PAYLOAD DATA PORTS | 2x Gigabit Ethernet · 1x PoE+ · 1-2 Fiber | MOUNT COMPATIBILITY | Universal Payload Connector |
| BACKHAUL READY | LEO/GEO Sat · LTE/5G · Microwave PtP | PAYLOAD POWER OUT | 5 V · 12 V · 24 V · 48 V Regulated |
| | | DATA INTERFACE | UART / Ethernet / CAN / GPIO / USB |



HARRIS AERIAL

CARRIER HX8 TETHER

HX8 TETHER · PRODUCT BROCHURE

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— CONTACT

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