

# UHF Network and Comms Range Extension - Plus Ethernet

Optimized for tethered aerial platforms where size and weight are critical, HARC-Tactical connects all communications from the platform to the ground over one single-mode optical fiber in the tether.

HARC-Tactical transports the payload's data, UHF radio communications, and the platform's command-and-control signals over an optical link. The link is physically secure, immune to interference, and essentially unlimited in bandwidth. Unsecure, interference-prone, bandwidth-limited, wireless links to your aerial platform are now a thing of the past.

Your aerial payloads can now deliver torrents of data to the ground.

Your aerial platform now has secure command-and-control.

And your high antenna for radio communications (HARC) connects UHF radio networks out to the visible horizon, while your radio stays safely and securely on the ground.

**Enable your aerial platform to operate securely while networking out to the horizon**

## HARC-Tactical

- Physically secure, jam-proof UHF connectivity
- Physically secure, jam-proof Ethernet connectivity
- Essentially unlimited bandwidth with optional additional wavelengths
- Low size, weight, power, and cost (SWaP-C)



**SYTONICS**


Communication Innovations in the RF Domain

**Simple Integration**

**Comms to the Horizon**

**Secure, Jam-Proof**

**Low SWaP-C**



Single Optical Fiber  
Gigabit Network  
18-32 Vdc  
RF, 225-450 MHz  
Status LEDs

**SYTONICS LLC**

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**Product Characteristics:**

Frequency Range	225 MHz – 450 MHz*
RF Connectors	TNC
RF Input Power	1–5 W    20 W Survivable
RF Transmit Power	5 W (225 MHz – 450 MHz)*
Fiber Type	One single mode fiber
Fiber Connector	SC-APC
Optional external CWDM wavelengths available	
DC Power 18 – 36 VDC   38 Watts Max	

\* Other frequency ranges available. Call Factory.

**Physical / Environmental:**

Dimensions	10" W x 7" D x 1.5" H
Weight	2.1 lb
Temps, Operating	-10 to +60 C
Temps, Storage	-40 to +80 C



**Comms over Terrain**



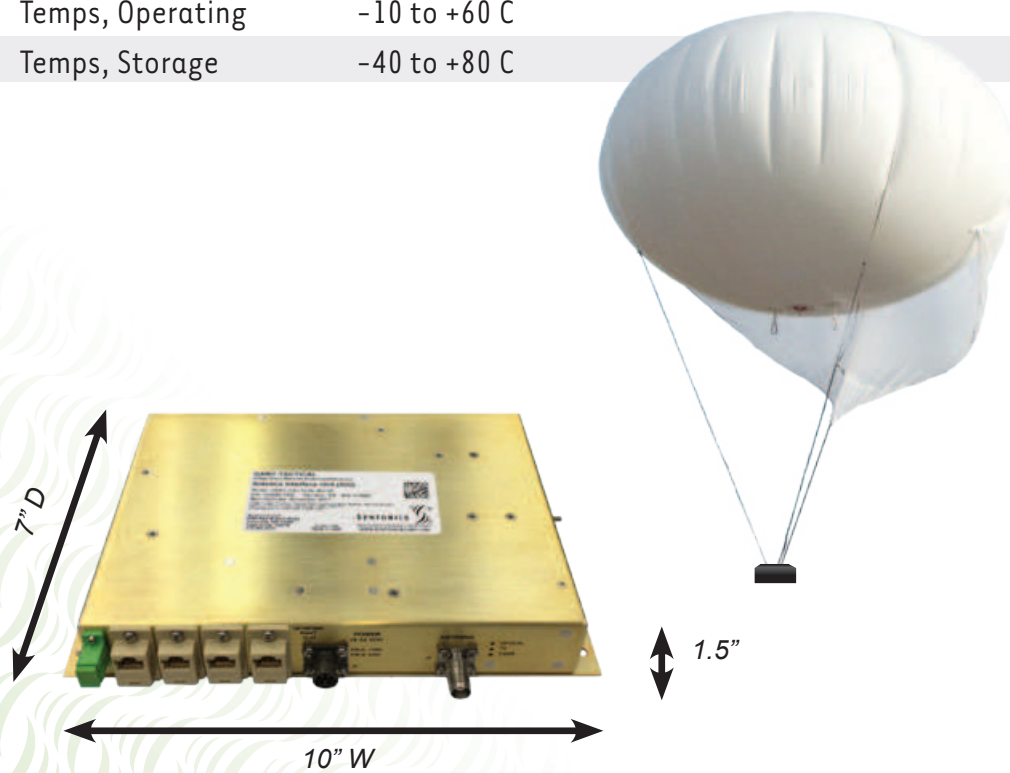
**Comms from Shore-to-Ship**



**Comms into Urban Canyons**



**Comms into Urban Canyons**



U.S. Government customers can take advantage of this product's "SBIR Data Rights" to place sole-source procurements. Call the Factory for details.

**Other FORAX-HARC configurations are available, for larger aerostats**

	HARC-4S2U	HARC-2S1U	HARC-TD-50
<b>Radios supported</b>	<ul style="list-style-type: none"> <li>4-VHF including SINCGARS (SNAP interface included)</li> <li>2-UHF, any waveform (e.g., ANW2, SRW, EPLRS, voice)</li> </ul>	<ul style="list-style-type: none"> <li>2-SINCGARS retrans pair (SNAP interface included) or 1-VHF</li> <li>2-UHF, any waveform (e.g., ANW2, SRW, EPLRS, voice)</li> </ul>	<ul style="list-style-type: none"> <li>UHF, any waveform (e.g., ANW2, SRW, EPLRS, voice)</li> </ul>
<b>Airborne weight</b>	<ul style="list-style-type: none"> <li>~ 95-lb with antennas + cables</li> </ul>	<ul style="list-style-type: none"> <li>~ 35-lb with antennas + cables</li> </ul>	<ul style="list-style-type: none"> <li>Lifts itself using tethered drone</li> </ul>
<b>Packaging</b>	<ul style="list-style-type: none"> <li>Modular Form Factor</li> </ul>	<ul style="list-style-type: none"> <li>Lightweight Form Factor</li> </ul>	<ul style="list-style-type: none"> <li>Tethered drone form factor</li> </ul>