



*Communication Technologies in the RF Domain*

For more information, contact:  
Ray Madonna, Vice President Sales & Marketing  
*Ray.Madonna@SyntonicsCorp.com*  
1.410.884.0500 x206

# News

***For Immediate Release***

## **Syntonics' FORAX RF-over-Fiber Antenna Extension System Joins the War**

COLUMBIA, MD. September 10, 2010 . . . Syntonics LLC, based in Columbia, Md., has received permission to reveal that its FORAX RF-over-fiber product is now operating as the High Antennas for Radio Communications (HARC) component of an U.S. Army Persistent Threat Detection System (PTDS) aerostat in a forward-located theater of war. Reports indicate that all SINCGARS and EPLRS radio links have been operational for several months, enabling communications at long ranges not before achievable.

Under a contract with Lockheed Martin, Syntonics delivered two (2) six-radio aerostat-mounted HARC systems and two ship-sets of spare modules. Syntonics delivered a third HARC system under a separate Army purchase order. The HARC system places a lightweight communications payload with SINCGARS and EPLRS antennas high aloft on a tethered aerostat, while the six radios remain on the ground in the command post (CP). The airborne antenna allows communications over obstacles in mountainous terrain and over tall buildings in urban settings while keeping the radios in the CP, thereby eliminating operational difficulties in controlling the radios and potential for loss of communications. The radios' RF signals are transmitted and received over a single optical fiber in the aerostat's tether.

This contract from Lockheed Martin fulfills a U.S. Army requirement for a deployable communications capability to extend the range of SINCGARS and EPLRS radios and overcome line-of-sight (LOS) obstructions in the mountains of Afghanistan and the urban environment of Iraq.

The FORAX product line, deployed since 2004 by U.S. and foreign militaries, moves antennas away from command posts; eliminates the electronic and visual signature of nearby antennas; increases the security of people and equipment in the CP and enables radios and crypto equipment to be operated from inside secure facilities. This new application for airborne antennas adds another valuable communications tool for the warfighter. Syntonics recently added HF and GPS capability to its already-fielded SINCGARS, VHF/UHF, UHF TACSAT and EPLRS modules. To date, Syntonics has fielded over 200 FORAX links around the world.

Syntonics is a defense electronics company that produces FORAX RF-over-fiber communication systems for military radios and innovative antennas for military applications. For more information on Syntonics and its products, please see the company's website at [www.SyntonicsCorp.com](http://www.SyntonicsCorp.com).