

TiaLinx, Inc. Announces Release of Phoenix50-A, a Small Unmanned Aerial System with Software-Defined Multi-Function Radar Capability

Newport Beach, CA – November 21, 2011-TiaLinx, Inc., a developer of remotely controlled small unmanned aerial systems (sUAS) integrated with mm-wave miniaturized radars, today announced the release of its software-defined multi-function radar sensor implemented in its vertical take-off and landing (VTOL) platform. The Phoenix50-A VTOL sUAS system is capable of performing various functions such as motion detection within a compound, scanning the ground for unexploded ordnance (UXO), and non-line of sight (NLOS) landing using fine beam ultra-wideband (UWB), multi-Gigahertz radio frequency (RF) sensor array. The sUAS can be remotely controlled at long standoff distances from the ground or an airborne asset. TiaLinx's real-time UWB RF Imaging development was sponsored by a SBIR Phase II from the Department of Army.

Through a software-controlled interface that is integrated into a laptop or joystick, Phoenix50-A can be remotely guided to perform mission critical tasks. In addition to the GPS based guidance system, the low acoustic signature sUAS can land on a desired premise using an undetectable radar. Upon landing, the RF sensor monitors the premise under surveillance for enhanced situational awareness.

The RF sensor transmits very low power UWB signal that is a fraction of a cellular phone's transmitter and is highly directional and can penetrate roofs at an extended range. At the receiver, a signal detector circuit is employed to capture the reflections from targets. Amplitude and delay information are then processed in an integrated signal processor. Capability to probe a compound at standoff keeps the operator and the Phoenix50-A out of harm's way.

"Phoenix50-A's introduction is intended to provide another breakthrough in the miniaturization of advanced life detection sensors that provide the capability to sense-through-the-roof (STTR) remotely. Like its sister product Cougar10-B that was launched on February 2011, Phoenix50-A can also be remotely programmed to survey ground for UXOs. The additional feature of landing in NLOS has paved the road for delivery of autonomous platforms to be announced in the near future" commented Dr. Fred Mohamadi, Founder and CEO of TiaLinx. "TiaLinx is constantly miniaturizing and upscaling its UWB RF imaging core competence to enable standoff sensing of a premise to enhance situational awareness, assist rescue operations in hard to reach terrains (such as collapsed buildings after an earthquake), and eradicate land mines to save lives."

About TiaLinx, Inc.

TiaLinx, Inc. is a privately held company that develops advanced electronic modules with very small form factor, highly integrated functionality, and advanced performance for a wide range of military and commercial applications. Utilizing its 44 granted patents and many more pending patent applications, specifically related to the on-chip and wafer-scale beamforming using phased arrays, and high-power miniaturized mm-wave power amplifiers and transmitters, the Company is uniquely positioned to supply robust RF Imaging devices economically by enabling revolutionary advancements in semiconductor

and sub-system designs. Since 2006, TiaLinx has received 7 Phase II and CPP awards from various government agencies.

TiaLinx was ranked as one of the top 3 companies performing advanced research projects sponsored by the Defense Advanced Research Project Agency (DARPA) during the DARPA Tech 2005.

The Company was a recipient of the U.S. Army's Commercial Pilot Program award in 2009. Twenty five companies were selected out of the 487 recipients of the phase II awards. Within the top twenty five companies selected, TiaLinx was the only recipient with the advanced radio frequency imaging technology for sense-through-the-wall applications.

TiaLinx was also the recipient of the 2010 Defense News Technology and Innovation Award for its Eagle5-P product which was selected by a panel of experts who recognized recent advances in defense technologies by U.S. companies and defense agencies. In all, the panel considered more than 80 nominations of products that came to market last year.

On December 2010, VME and Critical Systems recognized the high-power V-band transmitter and receiver of TiaLinx as Editor's Product of Choice.

Live performances of TiaLinx's products have been captured by Microwave Journal, the History Channel, and Reuters.

TiaLinx's wearable Eagle45 system and unmanned ground vehicle Cougar10, both integrated with the sense-through-the-wall sensors, have been extensively featured in "Modern Marvels" of the History Channel since October 2011.

For further information, please visit the Company's website at www.TiaLinx.com.

Press Release Contact: Ann Thum at: pr@TiaLinx.com; or (949) 748-7575