

MILREM to upgrade THeMIS UGV with Wireless Datalink from Silvus Technologies

Silvus StreamCaster 4200 radios enable reliable video and control in RF challenged environments

LOS ANGELES, CA, USA, August 14, 2017 /EINPresswire.com/ -- [Silvus](#) created its StreamCaster series of [MN-MIMO](#) radios to enable military-grade wireless video, data and voice communications in the most extreme situations. The ability to create an ad hoc self-forming/self-healing mesh network is essential for the dynamic tactical operations. This powerful method of wireless connectivity is a natural fit for Unmanned Ground Vehicles (UGVs), and in particular, for several major US Military UGV programs where stringent performance requirements dictate the use of advanced communications techniques.



These qualities recently caught the eye of MILREM, the Estonia-based designer and manufacturer of the Tracked Hybrid Modular Infantry System (THeMIS). THeMIS is a multi-purpose unmanned vehicle which can be utilized as an intelligence, surveillance, and reconnaissance (ISR) asset to assist target acquisition, logistics support, and medical evac and other missions. MILREM has chosen the Silvus StreamCaster 4200 ([SC4200](#)) as its datalink to provide wireless command/control and video for a variety of defense and commercial customers.

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Paired with high performance antennas, Silvus radios allow the THeMIS to drive extended ranges, pushing video and data

communication farther than before. The radios feature transmit beamforming, and industry first that nearly doubles the signal range of similar competing data links in the unmanned systems market. MIMO spatial multiplexing vastly increases throughput, and space-time coding enhances overall strength. Data rates up to 100+ Mbps are supported over the bi-directional, low latency datalink.

“Silvus is offering rugged and high quality MIMO radios which have proven to provide reliable wireless video and data communication over extended range. The technical support and guidance from the Silvus team has been quick and very effective.” said Rivo Opik, MILREM's Chief Engineer. “From the engineering side, Silvus StreamCaster radios have been very easy to use. The user interface with system settings is nicely organized and radios have several useful additional features, including mesh

networking.”

This extended range is key, and is why MILREM searched for an improved data link to complement their existing THeMIS platform. Companies purchasing the THeMIS can control one, two or an entire fleet of THeMIS UGVs and monitor exactly what is happening at any given time using real-time, live-feed HD video from the Silvus radios.

“The radios have been performing greatly. Extended range with higher output power is not an issue when used on our ground vehicle. In urban environments where signals are attenuated by buildings and other obstructions, it is even possible to extend operational range by use of one or more repeaters.” added Opik. “We were able to test extended range in open areas and test the functioning of mesh network on our vehicles. The vehicle was controllable with non-existing latency over meshed network.”



About Silvus Technologies:

Respected for developing advances in next generation military technology to provide wireless communications in the harshest of environments, Silvus excels where traditional systems fail. Silvus leads the Mobile Networked MIMO waveform revolution with mesh radio systems designed to distribute high bandwidth video and data anywhere. From sea to sky and everywhere in between, Silvus StreamCaster radios create robust, self-healing/self-forming, fluid mesh networks. Delivering COFDM modulation and up to 4x4 MIMO, Silvus provides higher throughput, longer range, better reliability and more flexibility than any wireless standard: true, military-grade “plug and play” operation. Today, Silvus continues to pioneer MIMO innovations that are reshaping critical broadband wireless connectivity around the world.

About MILREM:

MILREM was founded in 2013 by SEBE Ltd. The mission of the company is to be a reliable partner in the defense and security sector, offering flexible product development solutions and full life cycle support for heavy vehicles. Since the beginning of 2014, MILREM has been providing maintenance and repair works for the Estonian Defense forces XA-180, XA-188, and other military vehicles. MILREM is developing a mobile and command post and unmanned tracked vehicles for military purposes.

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