|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | MISSION STATEMENT**TEQ**novations, LLC develops and delivers high-performance, low-cost, timed-array antennas, subsystems, and components for use on the ground, at sea, in the air, and in space by the Government and commercial customers. | | **ADVANTAGES**   * **Ultra-wide instantaneous bandwidth (5:1)** * **Beam steering independent of RF signal frequency** * **No squint** * **No RF pulse distortion** * **Dual-polarity operation** * **Low size, weight, and power** * **Low cost** | |  | Contact Us    **Tom Linnenbrink**  **Principal & CEO**  **M: 719-235-7327**  **E: toml@teqnovations.com**  **TEQnovations, LLC** 1457 Smoochers Circle Colorado Springs, CO 80904  **Visit us on the web www.TEQnovations.com** | |  |  | | --- | --- | |  | | |  | |  | | |  |  | |  | | --- | |  | | **Ultra-wide bandwidth Active Electronically Scanned Arrays (AESA) for data communications, persistent ISR, and high range resolution radar.** | |  | |  | |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | |  | | Company History TEQnovations began development of its patented timed-array AESA technology in January 2013. Successfully demonstrating Ultra-wide-bandwidth time delay units (TDUs) in September 2015. In March 2018, TEQnovations completed a detailed conceptual design of its modular, SATCOM antenna/receiver.  TEQnovations ultra-wide-bandwidth, timed-array AESA antennas enable next-generation SIGINT, radar, and data communication operations between 1 GHz and 200 GHz. True-time-delay beam steering enables transmission and/or reception of RF signals in a 5:1 frequency range without squint or RF pulse distortion. | |  |  | |  | | --- | | Core CompetencyArray antenna design & modelingRF system designSignal processing algorithm designEM design & modellingEM packaging designField Programmable Gate Array (FPGA) implementationMixed-signal IC designRFIC designRF testingLow-rate initial productionResearchPatented timed-array AESAPatented true-time-delay unit (TDU)Detailed conceptual design of a modular, Ka-band SATCOM receive antenna40 – 200 GHz AESA development  * TDU radiation testing * Keysight PNA-X, 4-port, 10 MHz – 50 GHz network analyzer * Cascade Summit microwave prober,   -50oC to +200oC thermal capability | |  | |  | |  | | |  |  | |  | | --- | | Market / CustomersIntelligence CommunityNavy (Office of Naval Research)Army (Assistant Secretary of the Army) | |  | | Contract VehiclesPhase II S BIR (Sole-sourced follow-ons)Second Phase IIPhase 2.5Phase III | |

