

RT Logic Announces Air Force Research Laboratory SBIR Project Award – Portable Universal Ground Processing Unit

Colorado Springs, CO May 2002 – RT Logic announces the receipt of an Air Force Research Laboratory (AFRL) Small Business Innovation Research (SBIR) Phase 1 award for a Portable Universal Ground Processing Unit (PUGPU). The research topic is to develop a PUGPU that performs the RF, IF, baseband, and ground communications functions for Tracking, Telemetry and Control (TT&C) applications required for Department of Defense, Civil and commercial satellite ground terminals.

The envisioned PUGPU supports multiple RF bands, multiple bandwidth-efficient waveforms and error coding and correction capabilities used for current and future satellite control functions. It is also compatible with industry standards and protocols so it can be easily plugged into the global WAN to easily communicate with a SOC. Much of the processing is handled with software and firmware, making the unit flexible and extensible to future requirements.

“RT Logic is very enthusiastic about this project. We see a convergence of technologies in digital signal processing, software radio and software interoperability that allows us to support DoD, NASA & commercial TT&C missions in a single, compact unit,” remarked Paul Thoreson, Space Business Development Manager for the company. RT Logic is focused on supplying a PUGPU which supports SGLS, STDN and USB protocols, TDM and CCSDS formats, selectable uplink and downlink frequencies, and selectable communications interfaces to the ground communications network. The result truly is a Universal Ground Processing Unit.

About RT Logic

RT Logic is a leading provider of open architecture telemetry systems and products for satellite and launch vehicle operations and test. The company, which is known for innovation, performance and support, has delivered over 400 systems over the past five years.

RT Logic’s product lines also include the Telemetrix™ 70/70 for ground antenna systems, the Telemetrix™ 505 for satellite control centers, the Telemetrix™ 508+ for Air Force Satellite Control Network interfacing and the Telemetrix™ 106R for range telemetry applications.

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