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**RT LOGIC'S AWARDED TDRSS K-BAND UPGRADE PROJECT BY HONEYWELL**

*The Telemetry 1200HDR Wideband Modem to be Demonstrated*

Colorado Springs, CO, September 4, 2007 -- RT Logic, a recognized leader in satellite data link processing, today announced a contract award by Honeywell Technology Solutions, Inc. (HTSI), for the Tracking and Data Relay Satellite System (TDRSS) K-Band Upgrade Project (TKUP).

Honeywell is the prime contractor working on National Aeronautics and Space Administration (NASA) Goddard Space Flight Center's Near Earth Networks Services (NENS) Contract. For the TKUP effort, RT Logic will demonstrate their Telemetry 1200HDR (T1200HDR) high data rate receiver and test modulator. NASA is replacing the current K-Band Single Access Return (KSAR) high rate equipment with modems that extend the data rates to up to 1.5 Gbps and implement high performance error correcting codes, such as Low Density Parity Checking (LDPC) and Turbo Product Code (TPC). A demonstration of the receiver technology is scheduled for January 2008.

The T1200HDR is RT Logic's latest wideband modem product. It employs digital receiver technology to meet multi-mission, high data rate requirements. The T1200HDR supports most of the popular demodulation schemes: Binary Phase Shift Keying (BPSK), Quadrature Phase Shift Keying (QPSK), Staggered Quadrature Phase Shift Keying (SQPSK), and optional Unbalanced Quadrature Phase Shift Keying (UQPSK) and Eight-Phase Shift Keying (8PSK) signals. Data rates ranging to 1.7 Gbps are supported. Demodulation processing is supplemented by bit synchronization (with optional Viterbi error correction), Pulse Code Modulation (PCM) code conversion, and Consultative Committee for Space Data Systems (CCSDS) frame processing.

The TKUP award is just one of a number of RT Logic's TDRSS-related efforts. For the TDRSS Space Network Expansion (SNE) Program, RT Logic delivered both high rate (up to 300 Mbps) and narrowband modems to NASA and Honeywell. For another NASA- and Honeywell-related effort, the Extended TDRSS Ground Terminal (ETGT) Program, RT Logic products supported TDRSS Telemetry, Tracking, and Commanding (TT&C) processing.

Additionally, the TDRSS Cross Link Simulator (TSIM) has been used by a variety of customers to check-out TDRSS S-Band Cross Links for space vehicles undergoing Assembly, Integration, and Testing (AI&T).

"We are very pleased to be working with Honeywell and NASA on this important TDRSS program," said Jim Brandt, RT Logic's Business Area Director for Ground Systems. "Our high rate modem performance on the Space Network Expansion has proven that we understand the TDRSS mission and can meet very challenging wideband processing requirements. The T1200HDR builds on our previous TDRSS and high rate processing experience to offer a natural replacement to the legacy equipment at the TDRSS ground terminals."

## **ABOUT RT LOGIC**

RT Logic is a leading provider of products for ground-based applications, primarily for satellite and launch range operations. Known for exceptional innovation, performance, and support, RT Logic has delivered over 2000 systems since its inception in 1997. RT Logic offers a complete line of Telemetrix<sup>®</sup> products used in systems for widely varied control center, ground antenna, and range applications. Since October 2002, RT Logic has operated as a wholly owned subsidiary of Integral Systems, Inc.

## **ABOUT INTEGRAL SYSTEMS**

Founded in 1982, Integral Systems, Inc., is a leading provider of satellite ground systems and has supported over 205 different satellite missions for communications, science, meteorological, and earth resource applications. Integral Systems was the first company to offer an integrated suite of Commercial Off-the-Shelf (COTS) software products for satellite command and control: the EPOCH Integrated Product Suite (IPS) product line. EPOCH IPS has become the world market leader in commercial applications with successful installations on five continents.

Through its wholly-owned subsidiary, SAT Corporation, Integral Systems provides satellite and terrestrial communications signal monitoring systems to satellite operators and users throughout the world. Through its Newpoint Technologies, Inc., subsidiary, Integral Systems also provides software for equipment monitoring and control to satellite operators and telecommunications firms. Integral Systems' Lumistar, Inc., subsidiary provides system- and board-level telemetry acquisition products. Integral Systems has approximately 470 employees working at its headquarters in Lanham, MD, and at other locations in the U.S. and Europe. For more information, visit <http://www.integ.com>.

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