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## **FOR IMMEDIATE RELEASE**

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## **RT LOGIC ANNOUNCES SATELLITE CHANNEL SIMULATOR AVAILABILITY**

### *Powerful and Economical System for SATCOM Link Testing*

Colorado Springs, CO, July 30, 2007 -- RT Logic, a wholly owned subsidiary of Integral Systems, Inc. ([NASDAQ-ISYS](#)), today announced the availability of their Satellite Channel Simulator, the T400CS (Telemetry<sup>®</sup> 400CS). The T400CS is RT Logic's powerful, yet economical communications link simulator. The T400CS emulates the channel characteristics of a communications uplink and downlink propagation path. Time delay, doppler, range attenuation, and fading are emulated in a smooth and phase-continuous manner. The T400CS provides IF (Intermediate Frequency) or RF (Radio Frequency) inputs/outputs at standard SATCOM (Satellite Communications) frequency bands.

The T400CS enables real-time, hardware-in-the-loop emulation of propagation effects. The approach provides the ideal alternative between off-line software-based simulations and leasing expensive satellite transponder bandwidth. The T400CS can emulate a single propagation path (uplink or downlink), round trip paths (uplink to downlink), or multiple hops (uplink to downlink to uplink to downlink).

With the precise, dynamic, and repeatable control of the signal propagation path, the T400CS enables many applications, including:

- Terminal Operator Training.
- Realistic Loopback Testing.
- Comprehensive Terminal Testing.
- Modem and Terminal Performance Testing.
- Diversity Combining Testing.
- Dynamic TDMA (Time Division Multiple Access) Network Testing.

The T400CS hardware can be configured for single or multi-band operations in frequency ranges that include 70MHz, L, S, C, X, Ku, and Ka. Depending on RF uplink/downlink requirements and the number of independent propagation paths, the T400CS is offered in a 1U, 2U, or 5U form factor chassis. All three chassis versions enable instrument control via a user-supplied keyboard, monitor, and mouse, or remotely via an Ethernet connection. The 1U and 2U versions are equipped with a simple front-panel push button and LCD (Liquid Crystal Display) interface for control and status.

“All of the T400CS’s effects have a smooth, phase-continuous quality and faithfully emulate real-world RF link phenomena associated with links to orbiting satellites,” commented Andy McMahon, Product Manager for the T400CS. “Also, the modular architecture of the T400CS enables cost-effective customized solutions for a wide variety of link testing and simulation applications.”

**THE RT LOGIC T400CS, 2U VERSION, IS SHOWN HERE**



**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® 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 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 COTS (Commercial Off-the-Shelf) software products for satellite command and control: the EPOCH IPS (Integrated Product Suite) 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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