

## Telemetrix 505 – Control Center Front End

RT Logic's third generation Telemetrix™ 505 is now available. The T505 is used within satellite control centers for front-end processing functions. The third generation T505 offers new capabilities including reconfigurable hardware modules, full CCSDS support, a browser-based graphical user interface (GUI), CORBA middleware, and a reduced system footprint.

These new features provide an open architecture means for integration of the T505 with TT&C and ground control software. The T505's telemetry/command processing, data archiving, telemetry simulation, and KG control/status functions provide users with a highly configurable satellite control center front-end.

The new T505 is available in a PowerPC-based architecture running VxWorks or a PC-based configuration running Linux. These combinations provide users with a high availability platform with true real time (deterministic) processing or the lower-cost of a PC-based solution. The T505 implements RT Logic's Real Time Personality (RTP™) to enable dynamic reconfiguration of the front-end.

Paul Thoreson, RT Logic's Space Business Development Manager, commented "RT Logic has delivered over 300 open-architecture Telemetrix system over the past four years. This third generation of the T505 provides enhanced methods for integration, makes the system easier to use, and offers more capability than competing products in an economical, reduced footprint."

"With this release, we've maintained our commitment to innovation," noted Rob Andzik at RT Logic. "Platform independence is offered by using the T505's CORBA IDL for software integration with the control center's TT&C application. Plus, the Java-based browser interface makes setup and control of the T505 straightforward."

In addition to sophisticated software enhancements, the third generation T505 provides new hardware options. The T505 and T505P (Linux Version) are rack-mount chassis available in 2U (3.5") and 4U (7") high configurations. The T505 is available with an optional front-panel LCD that provides unit level status. The unit's browser interface can be accessed at either a PC or Unix workstation.

The T505 continues to offer powerful telemetry processing functionality for both TDM and CCSDS data formats. The T505's PCM simulation tools provide a means for readiness and loop-back testing. The T505 supports both ternary and serial commanding formats, including command echo and COP-1 processing. Standard monitor and control interfaces for DoD and commercial encryptors/decryptors from Mykotronx and Group Technologies (KI-17) are available. Elwell KGs are also supported. The unit has been integrated with several popular Telemetry, Tacking and Commanding (TT&C) software packages, including Epoch2000, OS/Comet and SCS-21.

RT Logic is a leading provider of open architecture systems and products for satellite ground operations, satellite test activities, and launch vehicle/range telemetry acquisition. RT Logic's Telemetrix 508+ and Telemetrix 70/70 complement the Telemetrix 505. For more information, please call (719) 598-2801, email: [sales@rtlogic.com](mailto:sales@rtlogic.com), or check out [www.rtlogic.com](http://www.rtlogic.com).

