Talon: High-Speed Real-Time Recording Systems

Critical recording with high dynamic range and exceptional recording speeds

The Talon® High-Speed Recording Systems eliminate the time and risk associated with new technology system development. With increasing pressure in both the defense and commercial arenas to get to the market first, today's system engineers are looking for more complete off-the-shelf system offerings. Out of the box, these systems arrive complete with a full-featured virtual operator control panel ready for immediate data recording and/or playback operation.

READY-TO-RUN RECORDING SYSTEMS

The Talon offerings are fully integrated systems featuring a range of A/D and D/A resources or digital I/O with high-speed disk arrays. These systems are built on a Windows workstation. Users can easily install post-processing and analysis tools to operate on the recorded data. The recorded files are stored in the native Windows NTFS format, allowing them to be immediately used without the need for post-recording file conversion.

SYSTEMS FOR ALL YOUR RECORDING NEEDS

RTS Lab Systems are housed in a 19-in. rack-mountable chassis in a PC server configuration. They are designed for commercial applications in a lab or office environment.

RTR Rugged Portable Systems are available in small briefcase-sized enclosures with integral LCD display and keyboard and weigh less than 30 lbs. They are designed for harsh environment field applications where size and weight is of paramount importance.

RTR Rugged Rackmount Systems are built to survive shock and vibration and they target operation in harsh environments and remote locations that may be unsuitable for humans.

RTX Extreme Systems are available in a 1/2 ATR chassis and are designed to operate to military specifications and under extreme environmental conditions.

Featured Products

Model RTR 2742

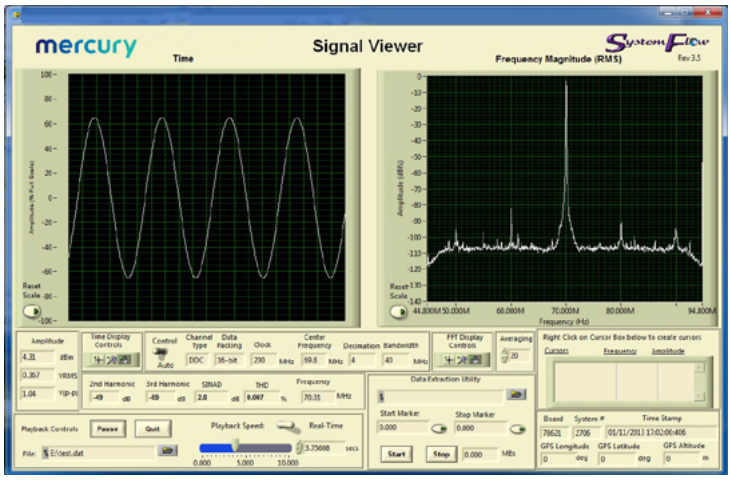
Ultra Wideband RF/IF Rugged Rackmount Recorder

Model RTX 2589

3.6 GS/sec Ultra Wideband RF/IF Extreme 1/2 ATR Recorder

SENTINEL

Sentinel™ recorders add intelligent signal scanning with signal monitoring and detection to Talon real-time recording systems. Users can scan the entire available spectrum or select a region of interest. Selectable-resolution bandwidth allows for the trading of sweep rate for a finer resolution and better dynamic range. RF energy in each band of the scan is detected and presented in a waterfall display. Any RF band can be selected for real-time monitoring or recording. The Sentinel hardware resources are controlled through enhancements to Talon's SystemFlow® software package.



The SystemFlow Signal Viewer includes a virtual oscilloscope and a virtual spectrum analyzer for signal monitoring in both the time and frequency domains. You can download and install the free SystemFlow Simulator to your desktop or laptop PC.

Model RTR 2684

26 GHz Sentinel Intelligent Signal Scanning RTX Extreme Recorder

ARCHITEK

The ArchiTek™ FPGA Development Suite allows FPGA design engineers to add custom IP to a number of Mercury's Talon recording systems. FPGA IP can be added to the recorder to provide real-time, on-the-fly digital signal processing during the data acquisition process, greatly reducing the time associated with post-processing recorded data. ArchiTek provides a simple development environment that allows engineers to add FPGA IP such as threshold detection, spectral filtering, digital downconversion, demodulation or any other digital signal processing technique required.

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Learn more

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