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ST-201 VME Backplane & ST-101 1553 Data Bus Monitor/Analyzer

SystemTrace™ has been designed to provide global visibility into system operation by monitoring key *data flow* in multiple, dissimilar data streams incorporated in embedded systems. This monitoring is accomplished using Real-Time NonIntrusive (RTNI) techniques so that the act of monitoring does not affect the system operation. The data files collected *synchronously* at the key dataflow points are *time-correlated* so that dependencies on actions among system elements can be observed.

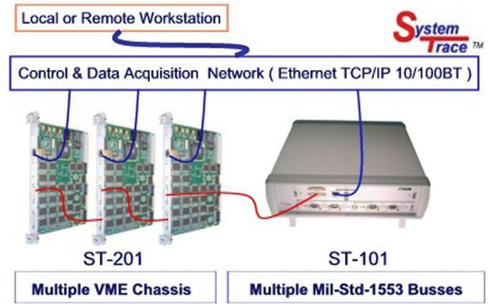
SystemTrace has a networked architecture that incorporates distributed monitor modules for VME backplanes, MIL-STD-1553 data buses and future additions. A feature is also included to time-correlate the software execution in the system's processing units to the data in the heterogeneous data streams.

These modules can be distributed throughout the embedded system and over different physical locations. SystemTrace can take the form of laboratory instruments or onboard monitors with person-machine interfaces supporting operational functions.

SystemTrace is:

- Scalable
- Distributed
- Synchronized
- Adaptable to different data media
- Able to simultaneously monitor multiple dissimilar data streams in real time
- Monitor and time-correlate software execution events with other system events monitored in separate data stream; uses a common Graphical User Interface (GUI) for setup, runtime presentations, and postrun analysis

The SystemTrace ST-201 VME Backplane Monitor/Analyzer is capable of monitoring and recording activity on all four VME backplane buses – Data Transfer Bus (DTB), Arbitration Bus, Interrupt Bus, and Utility Bus. This feature enables the analysis of data transfers between processors or any other device that participates in data transfers and VMEbus arbitration. VME protocol interactions can be analyzed by specifying operations on the Arbitration, Utility, and Interrupt Buses as *events* for the module to monitor and record.



FEATURES:

- Simultaneous, real-time, nonintrusive monitoring of up to 32 unique nodes (any combination of VME and/or 1553)
- Richly featured Windows GUI for setup and analysis of 32 SystemTrace modules
- Long-term data acquisition and storage via SystemTrace host module
- Time-correlated data collection
- Up to 256 unique events collected per session
- Local or remote setup and control via 10/100BASE-T TCP/IP
- Runtime data displays
- Eight cross-module triggers
- Complex triggers and filters (64-level state machine)
- Programmable and reusable data collection scenarios
- Open data interface
- Postrun analysis software

For more information contact: sales@itcninc.com **RSC# 21121 @ www.embedded-computing.com/rsc**

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