Event Data Recorder with Integrated F-RAM Memory

Presented as the semiconductor industry's first F-RAM-based Event Data Recorder (EDR) the FM6124 from Ramtron International continuously monitors state changes, stores them in the F-RAM, and alerts the system to the changes. Like a programmable logic controller (PLC), the device features simple device settings and data retrieval for easy system integration and a shorter design-in cycle. The device is designed for use in the industrial control, medical, and metering markets. Features include 32 Kbytes of F-RAM memory that can be used to store event records. Up to 24 Kbytes of F-RAM can be configured to store event/user data. The on-chip real-time clock (RTC) with calendar enables time stamping of events and can function as a system clock and calendar. It includes 12 digital inputs that can be individually configured to trigger event recording on either a rising or falling edge. Additional features include a 16-bit battery-backed event counter input; an early power fail monitoring input; and a user-programmable 64-bit serial number. The FM6124 operates from 3.0 to 3.6V over the industrial temperature range (-40°C to +85°C) and is available in a 44-pin QFP package. The EDR can perform in a host of applications such as activity/equipment/environmental monitoring; maintenance scheduling; power system management; automotive/industrial automation event recording; vehicle/pedestrian traffic counting; and surveillance systems.

Ramtron International
800-545-3726, www.ramtron.com [1]

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[1] http://www.ramtron.com/