

TWR-FRAM

Nonvolatile F-RAM Memory Module
Compatible with the Freescale Tower System

RAMTRON
International Corporation

Description

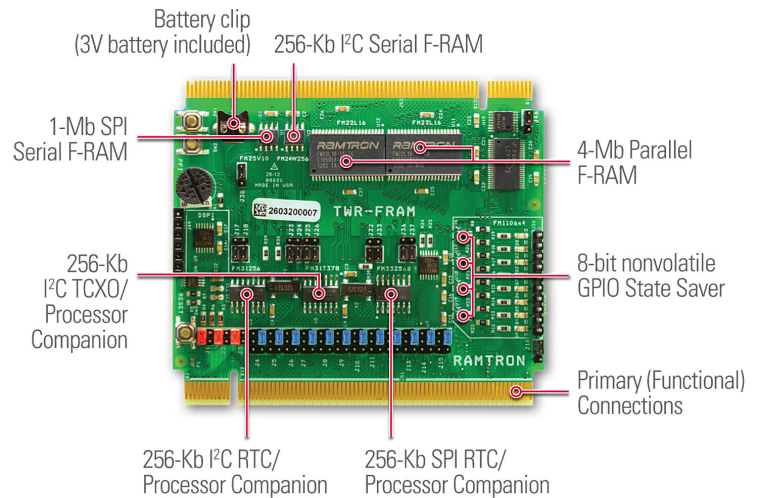
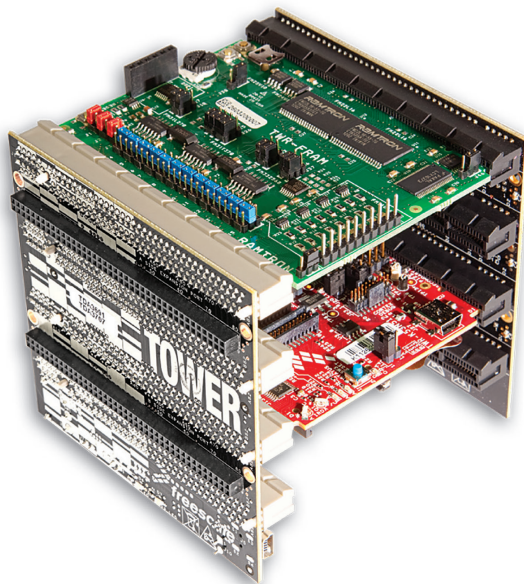
Take your system design to the next level with Ramtron's Tower F-RAM Module (TWR-FRAM). Compatible with the Freescale Tower System, the TWR-FRAM enables rapid development prototyping through the use of this flexible, reconfigurable platform.

The TWR-FRAM comes with Ramtron F-RAM core memory and integrated products, ideal for applications that require high data integrity and ultra-low power consumption, such as the metering, medical, industrial, and automotive markets. F-RAM inherently features high endurance, fast single-cycle and symmetrical read/write speeds, low energy consumption, gamma radiation tolerance, and immunity to electromagnetic noise.

The TWR-FRAM is designed to allow users to develop with Ramtron's complete product line; offering core memory products up to 8 megabits and choice of memory interface (SPI, I2C, or parallel), as well as Ramtron's processor companions, state savers, and an interface to Ramtron's wireless memory products, such as the WM72016-6-EVAL, sold separately.

The TWR-FRAM requires the following modules (sold separately):

- Tower System Processor (TWR-K53N512 or similar module)
- Elevator Modules (TWR-ELEV)



Features

The Tower System provides engineers building blocks for entry-level to advanced MCU development. Populated with a robust superset of Ramtron F-RAM core memory and integrated products, the TWR-FRAM offers engineers that develop with Freescale's ARM® Cortex™-based Kinetis and i.MX, ColdFire®, PowerQUICC™, QorIQ™, and other microcontroller and microprocessor solutions an easy-to-use platform to demonstrate, evaluate, and develop Ramtron F-RAM into their design solutions. The following nonvolatile F-RAM memory and integrated devices come standard on the TWR-FRAM module:

- **FM22L16 4-Mb Parallel F-RAM** (expandable to 8-Mb) - 2 devices
- **FM1106 8-bit nonvolatile GPIO State Saver** - 4 devices
- **FM25V10 1-Mb SPI Serial F-RAM** - 1 device
- **FM24W256 256-Kb I2C Serial F-RAM** - 1 device
- **FM31T378 256-Kb I2C TCXO Processor Companion** - 1 device
- **FM31256 256-Kb I2C RTC/Processor Companion** - 1 device
- **FM33256B 256-Kb SPI RTC/Processor Companion** - 1 device



Download demonstration software applications and development tools at www.ramtron.com/go/TWR-FRAM