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F-RAM upgraded to automotive qualification

Low power, high-performance F-RAM meets AEC-Q100 Grade 3 standards.

Ramtron International's FM25V10-G is a 1Mb, 2.0-3.6V serial F-RAM memory device that has been qualified to AEC-Q100 Grade 3 standards.

This automotive-grade qualification, established by the Automotive Electronic Council's Stress Test Qualification for Integrated Circuits, expands Ramtron's portfolio of AEC-Q100 compliant memory to 15 devices, which are designed to meet the demanding requirements of the automotive sector. The Grade-3 qualification ensures device operation over the automotive temperature range of -40°C to +85°C.

The FM25V10-G is a member of Ramtron's V-Family non-volatile F-RAM memory, which features an operating voltage range of 2.0 to 3.6 volts. The FM25V10-G is a 1Mb serial SPI device that has an operating current of 3.0mA (I_{dd} at 40MHz) in an industry standard 8-pin SOIC package.



The product operates at full bus speed of 40MHz, features NoDelay writes, virtually unlimited read/write cycles, and low power consumption. The device is a drop-in replacement for 1Mb serial Flash and serial EEPROM memories in automotive, industrial controls, metering, medical, military, gaming, and computing applications, amongst others.

Ramtron's V-Family of F-RAM products includes a variety of serial I2C, serial SPI, and parallel memories. The V-Family enables improved device specifications and increased feature sets. The serial V-Family products offer an optional 64bit serial number, comprised of a 16bit unique customer ID, a 40bit manufacturing serial number, and an 8bit cyclic redundancy check for systems that require unique electronic numbering for added security.

Samples of the FM25V10-G are available now in a RoHS-compliant, 8pin SOIC package.

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