

Fujitsu has launched a 64-Kbit FRAM Guaranteed to Operate as low as -55°C

Optimal for applications in industrial machinery that require high reliability in extremely cold environments

Fujitsu Semiconductor Limited today announced that it has developed the MB85RS64TU, a 64-Kbit FRAM. This memory is capable of operating at temperatures as low as -55℃, a first for the Fujitsu's family of FRAM non-volatile memories. Mass-produced products are currently available.

This product features a wide power-supply voltage range from 1.8V to 3.6V, and lower operating temperature as low as -55°C - lower than that of competitive memories. Because it guarantees 10 trillion read/write cycles across the full temperature range, the product is optimal for industrial machinery such as equipment or machinery used to excavate natural gas and oil in extremely cold regions.

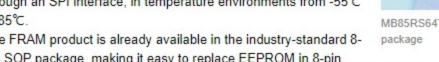
The MB85RS64TU is suited for general industrial applications such as measurement equipment, flow meters, and robots.

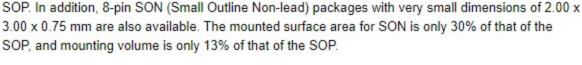
For approximately 20 years, Fujitsu Semiconductor has massproduced FRAM non-volatile memory products featuring highspeed write operation, high read/write endurance, and low power consumption. Especially, the guaranteed read/write cycles of the FRAM product is 10 trillion cycles, which is about 10 million times that of competitor non-volatile memory EEPROM. Therefore, Fujitsu FRAM products have been adopted for industrial applications requiring frequent data re-writing such as real-time data logging and 3D positioning data log.

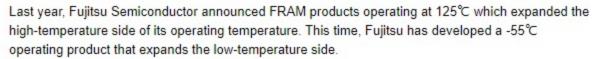
Today, Fujitsu Semiconductor has launched a new 64K-bit FRAM product MB85RS64TU that operates at temperatures as low as -55°C, extending the lower limit on the operating temperature of existing products from -40℃. The product was developed to meet the requirements of customers who need memory devices for industrial machinery that operate in extremely cold environments.

The MB85RS64TU operates with a wide power-supply voltage range from 1.8V to 3.6V, at a maximum frequency of 10MHz through an SPI interface, in temperature environments from -55℃ to 85°C.

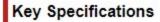
The FRAM product is already available in the industry-standard 8pin SOP package, making it easy to replace EEPROM in 8-pin







In this way, Fujitsu Semiconductor believes it is their responsibility to develop memory products that are optimally suited for all customer applications. For that reason, they will continue to offer products and solutions to improve the value and convenience of customer applications.



- Part Number: MB85RS64TU
- Density (configuration): 64Kbit (8K x 8 bit)
- Interface: SPI (Serial Peripheral Interface)
- Operating frequency: 10MHz max.
- Operating voltage: 1.8V to 3.6V
- Operating temperature range: -55°C to +85°C
- Read/Write endurance: 10 trillion times (1013 times)
- Package: 8-pin SOP, 8-pin SON

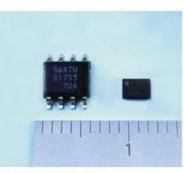
Related Links

- Fujitsu Semiconductor Top page
- FRAM Top page
- 64Kbit FRAM "MB85RS64TU" datasheet (1.59 MB)

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Applications for -55°C operation



MB85RS64TU in SOP and SON