

Fujitsu Launches High-Capacity Next Generation Non-volatile Memory

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Mass production commences of World First 1MBit Class FRAM

Munich, November 9th 2004 – Fujitsu Microelectronics Europe launches its 1MBit FRAM, the highest ever capacity for FRAM non-volatile memory, also featuring high speed read and write operations, low power consumption, and high endurance.

There is a growing demand for non-volatile memory with high-speed operation, low power consumption, and high endurance in Office Application equipment (e.g. printers, copier machines), portable information devices, and home appliances (e.g. microwaves, washing machines), for store security information and condition monitoring. Ferroelectric memory (FRAM) fulfils these requirements.

Fujitsu first marketed embedded LSI FRAM in 1999 and, in addition, also produced 256 Kbit application specific standalone memory for the non-volatile memory market. The company has to date already sold more than 150 million FRAM products.

With the latest 0.35um1T1C cell technology, Fujitsu was able to develop two 1Mbit FRAM devices - "MB85R1001"(x8 bits) and "MB85R1002"(x16 bits), the highest capacity of any of its FRAM products.

The company offers next generation memory solutions with its expanding FRAM product line-up, where the load on production, maintenance and the environment is drastically lightened and development costs are also reduced by using RAM/ROM replaceable FRAM.

Fujitsu has been a world leader in FRAM development and mass production, and will be the first company to mass produce mega bit class FRAM. With the combined features of both RAM and ROM, compared to EEPROM the speed of writing is more than 10,000 times faster, power consumption in write operation is tens of times smaller, and also rewriting endurance is more than 100,000 times higher.

Fujitsu has also introduced 1T1C cell technology that can realise twice as much capacity than its traditional 2T2C cell technology. This high capacity has been achieved without increasing the die size.

Trademarks

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ISSUED ON BEHALF OF:

Fujitsu Microelectronics Europe

Am Siebenstein 6-10

D-63303 Dreieich-Buchsschlag

Germany

Tel: +49-6103-690-0

Fax: +49-6103-690122

E-mail: jim.bryant@fme.fujitsu.com

Contact: Jim Bryant

MORE INFORMATION FROM:
JDK Marketing Communications
The Oasts
Charmans Farm
Beggars Lane
Westerham, Kent TN16 1QP
Tel: 0870 787 9510
Fax: 0870 787 9509

E-mail: joanna@jdk.co.uk

Contact: Joanna Muggeridge