

# TE0300 On-board Memories

The TE0300 has three on-board memories:

- SPI Flash: TE0300 modules have a STMicroelectronics M25P32 32-Mbit, low voltage, serial Flash memory with 75 MHz SPI bus interface for configuration and operating storage accessible through USB or SPI.
- serial EEPROM: TE0300 modules have a Micron Technology 24LC128 128K I2C CMOS Serial EEPROM. It used for EZ-USB FX2 firmware, vendor ID and device ID storage. EEPROM accessible through the EZ-USB FX2 microcontroller.
- DDR SDRAM: TE0300 modules have a 512Mb DDR SDRAM component for operation (code and data) accessible through the FPGA.

## TE0300 DDR SDRAM

Commercial-grade modules mount the following component:

- Micron Technology MT46V32M16BN-6

Industrial-grade modules mount the following component:

- Micron Technology MT46V32M16BN-6 IT

You can get the exact part number of the component mounted on your module from the Micron FBGA decoder: [http://www.micron.com/support/part\\_info/fbga/decoder](http://www.micron.com/support/part_info/fbga/decoder)

When developing DDR SDRAM designs with Xilinx tools (e.g. MIG, MPMC, ...), you should select the following product type:

- MT46V32M16-6.

Should it be not available, you can use one of the following product types:

- MT46V32M16-5
- MT46V32M16XX-5B
- MT46V32M16BN-5B
- MT46V32M16FN-5B
- MT46V32M16P-5B
- MT46V32M16TG-5B

TE0300 modules with the following part numbers

- TE0300-00
- TE0300-00-4I5C
- TE0300-00B
- TE0300-01
- TE0300-01B
- TE0300-01BLP

are assembled with

- Qimonda HYB25DC512160CF-6

512Mb DDR SDRAM components.

When developing DDR SDRAM designs with Xilinx tools, you should select the following product type:

- HYB25D512160BF-6.