

# TE0630 On-board Memories

The TE0300 has three on-board memories:

- DDR3 SDRAM: TE0630 is equipped with a 1 Gb (128 MB) DDR3 SDRAM chip. DDR3 memory is connected to FPGA bank 1.
- SPI Flash (serial): TE0630 is equipped with a Winbond ~~W25Q64GV~~ W25Q64JV (see [PCN](#)) 64 Mb (8 MB) serial flash memory chip (U14). This serial flash chip can operate as general SPI memory mode and in double or quad modes. Usage of dual and quad modes increase bandwidth up to 40 MB/s. For more information see [Winbond W25Q64 product overview](#).
- EEPROM (serial): TE0630 is equipped with a Micron Technology 24LC128 128 K I<sup>2</sup>C CMOS Serial EEPROM (U1). It is used for EZ-USB FX2 firmware, vendor ID and device ID storage. EEPROM is accessible through the EZ-USB FX2 microcontroller.