TX03 Series **32-bit / 100-pin**

Under Development **TMPM36BF10FG**

NANO FLASH™

The highly efficient microcontroller that incorporates 1Mbyte flash ROM and 258Kbyte SRAM

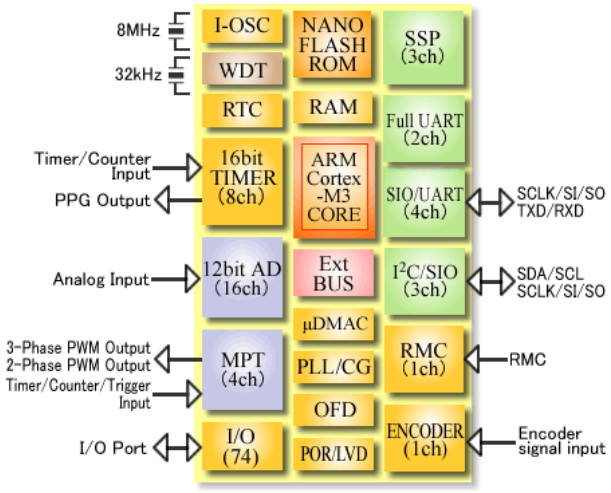
Features

ARM Cortex™-M3 CPU Core

- Operating voltage:
  2.7 to 3.6V (Single supply/on-chip regulator)
- Maximum Operating frequency:
  64 MHz
- On-chip debug circuit:
  JTAG, SWD, SWV or 4-bit trace interface
- Power saving operation
  Clock gear (for dividing clock to 1/1 to 1/16)
  Standby modes (IDLE, STOP1, STOP2)

Built-in Functions

- µDMA controller : 32 channels (2 units)
- 12-bit AD converter : 16 channels
  1-µs conversion time (@fc = 40 MHz)
- 16-bit timer : 8 channels
- Multi-purpose timer (MPT) : 4 channels
  - Three-phase PWM output : 1 channel
  - IGBT control-timer output : 4 channels
- Encoder input : 1 channel
- I/O ports : 72 pins
  Output ports : 2 pins
- Full UART : 2 channels
- SIO/UART : 4 channels
- I^2C (100 kHz, 400 kHz)/SIO : 3 channels
- SSP : 3 channels



Flash Memory Size

Part number	ROM (Flash)	RAM
TMPM36BF10FG**	1024 Kbytes	258 Kbytes
TMPM36BFYFG**	256 Kbytes	66 Kbytes

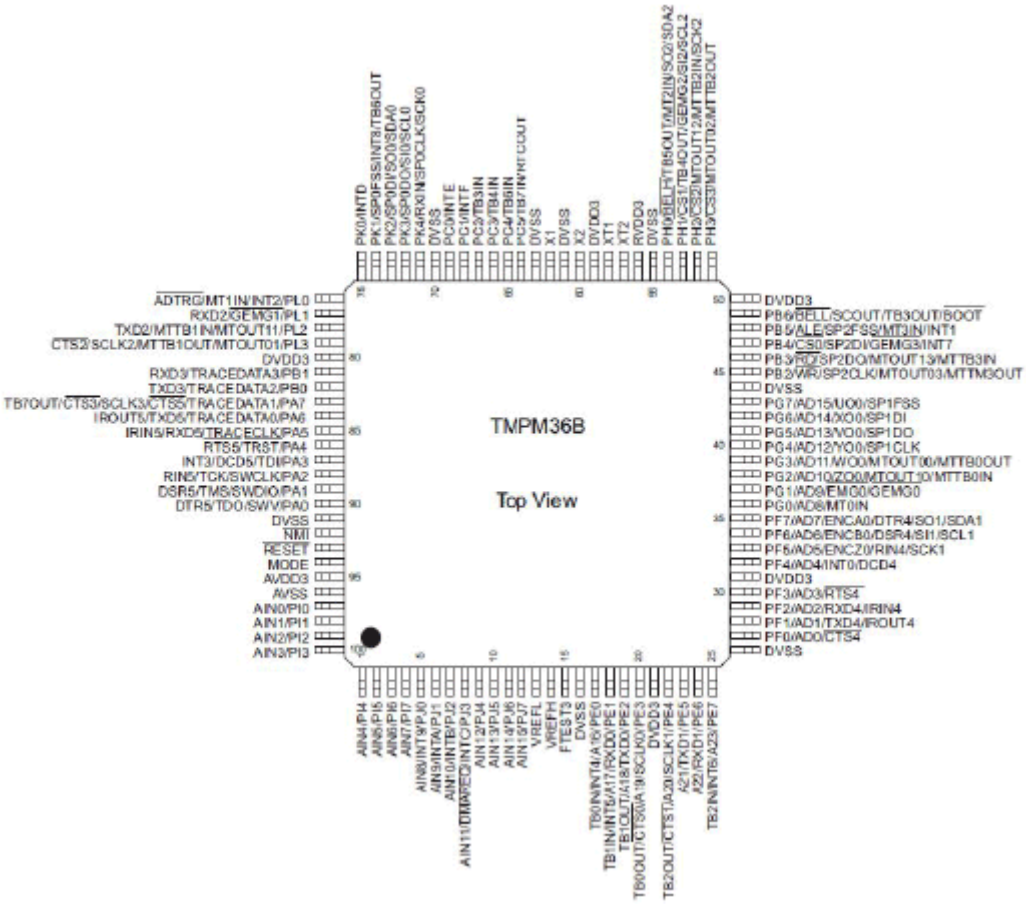
**:Under development

- RTC : 1 channel
- Remote control signal preprocessor : 1 channel
- External bus interface : 8/16-bit (Multiplex bus)
- Low voltage detector (LVD)
- Oscillation frequency detector (OFD)
- Power-on reset circuit (POR)

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Package Information

Pin Assignments



Package : LQFP100 (14 × 14 mm)

» For further information about Toshiba microcomputers and Toshiba microcomputer development systems, please visit http://www.semicon.toshiba.co.jp/eng/product/micro/index.html

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