TX03 Series 32-bit / 100-pin

Under Development **TMPM380FWFG**   Under Development **TMPM380FWDFG**   NANO FLASH™

Under Development **TMPM380FYFG**   Under Development **TMPM380FYDFG**

High-performance microcontrollers containing a multi-purpose timer for controlling the power devices used for home electronics, and realizing 5V single supply operation to achieve control over Induction Heating (IH) appliances and motors.

Features

ARM Cortex™-M3 CPU Core

- ▶ Operating voltage:
  4.0 to 5.5 V

- ▶ Maximum operating frequency:
  40 MHz (10 MHz × 4 by PLL)

- ▶ On-chip debug circuit
  JTAG/SWD/SWV,TRACE (DATA2 bits)

Built-in Functions

- ▶ 12-bit AD converter: 2-μs conversion time, 18-channel.

- ▶ Multi-purpose timer (MPT): 3 channels (Note: 2channels for three-phase PWM)
  Three-phase PWM output: Synchronous 3-channel PWM output (with AD conversion trigger)
  IGBT control-timer: Synchronous 2-channel PPG output, external trigger start, dead-time output, protection circuit controls in emergency

- ▶ Encoder input : 2 channels

- ▶ 16-bit timer : 8 channels

- ▶ RTC : 1 channel

- ▶ SIO/UART : 5 channels

- ▶ I^2C/SIO : 2 channels (1 channel is shared with SSP)

- ▶ SSP(SPI mode) : 2 channels (1 channel is shared with I^2C/SIO.)

- ▶ Remote control signal preprocessor : 1 channel

- ▶ DMA controller : 2 channels

- ▶ Power-on reset circuit

- ▶ Voltage detection circuit

- ▶ Internal Oscillator (10 MHz)

- ▶ Oscillation frequency detector (only when external oscillator is used)
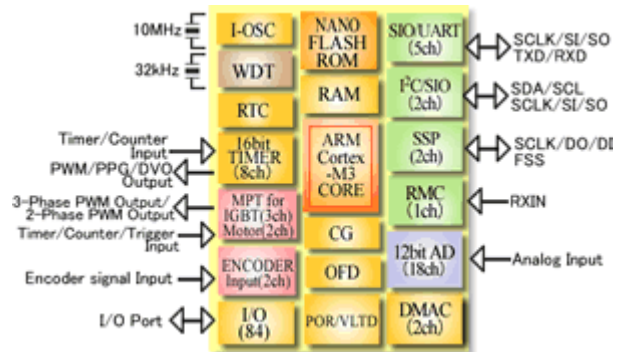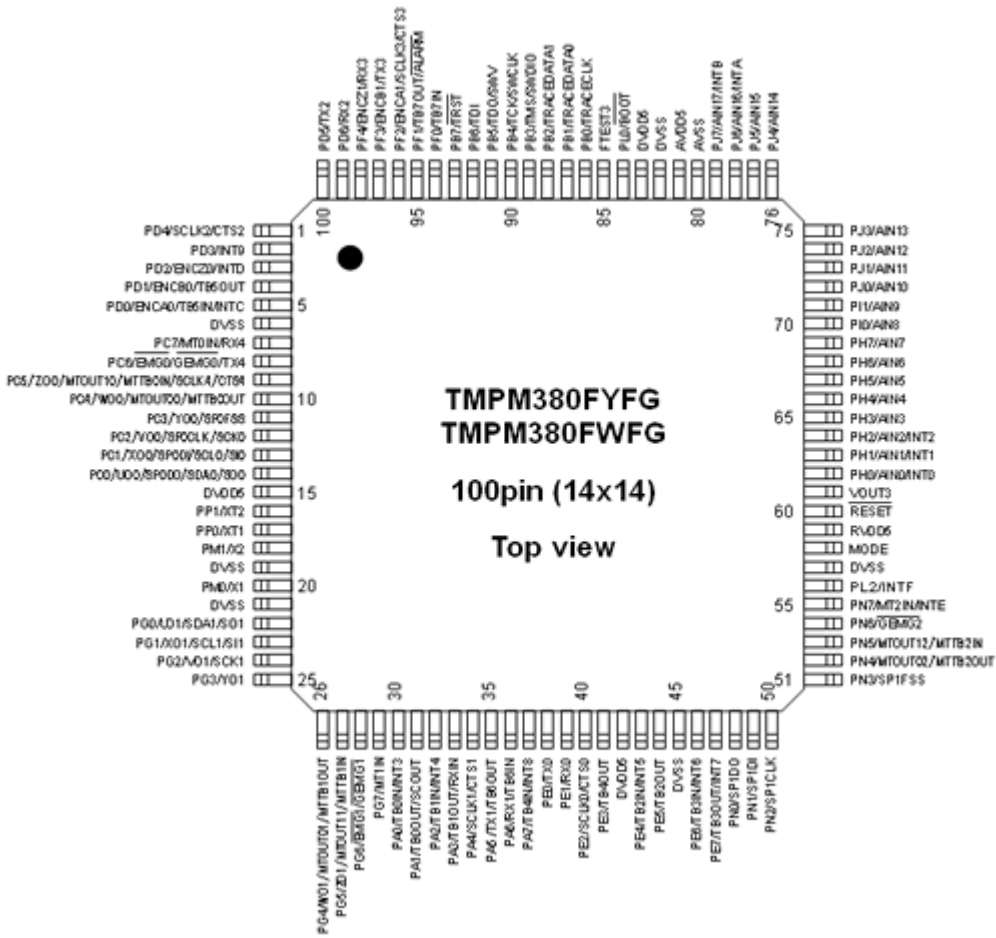

Flash Memory Size

Part number	ROM (Flash)	RAM
TMPM380FWFG**	128 Kbytes	12 Kbytes
TMPM380FWDFG**	128 Kbytes	12 Kbytes
TMPM380FYFG**	256 Kbytes	16 Kbytes
TMPM380FYDFG**	256 Kbytes	16 Kbytes

**:Under development

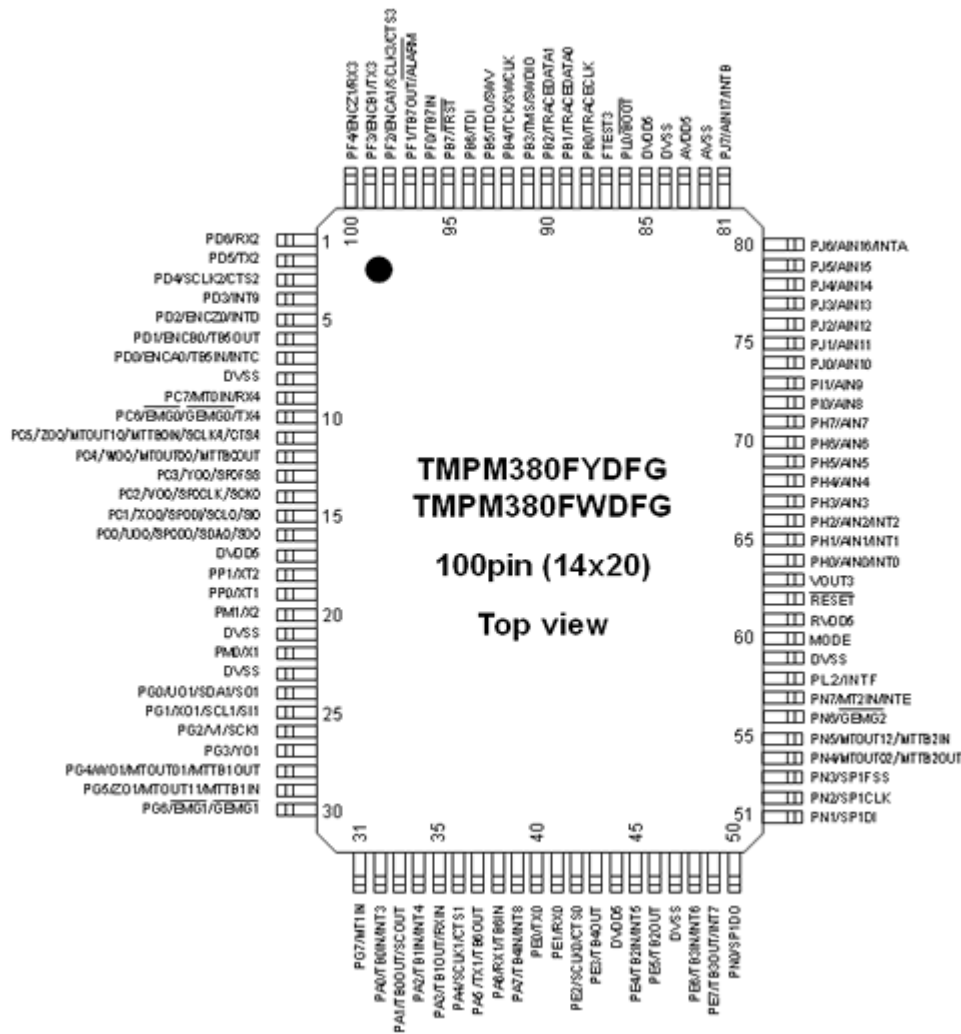* ARM and ARM Cortex are trademarks or registered trademarks of ARM Limited in the EU and other countries.

Package Information

Pin Assignments

Package name: LQFP100-P-1414-0.50H

Package name: QFP100-P-1420-0.65Q

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