TX03 Series 32-bit / 100-pin

Under Development **TMPM380FWFG** Under Development **TMPM380FWDFG**
Under Development **TMPM380FYFG** Under Development **TMPM380FYDFG**

NANO FLASH™

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.

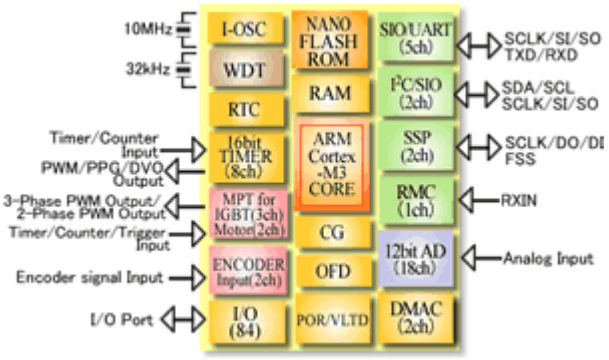
Features

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

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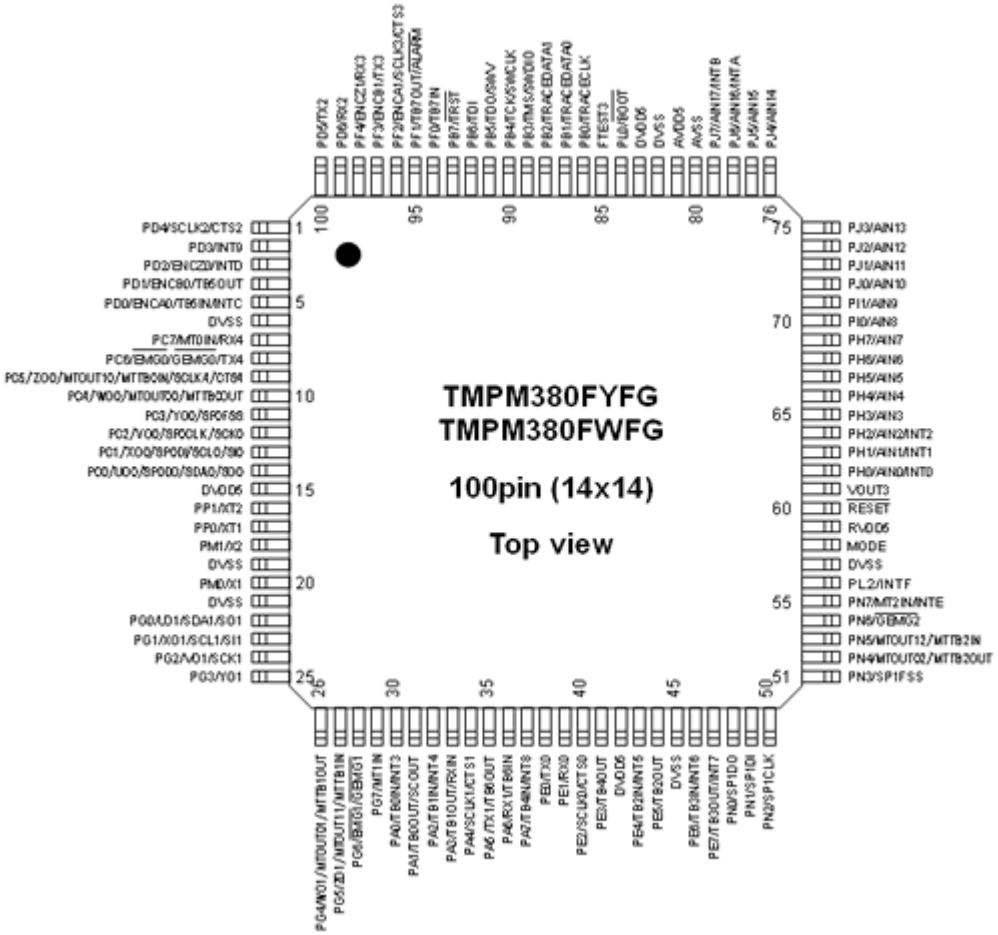
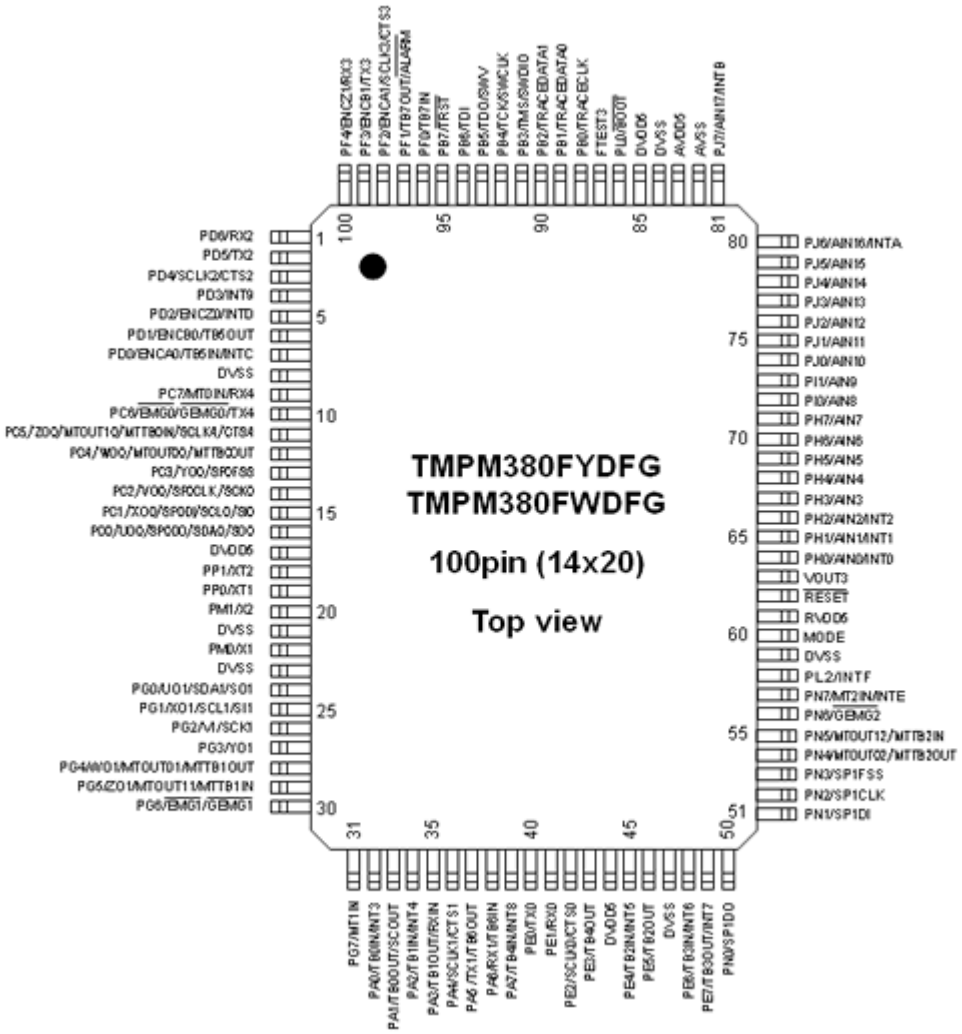
Package Information

Pin Assignments



Package name: LQFP100-P-1414-0.50H



Package name: QFP100-P-1420-0.65Q

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