

TX03 Series

32-bit / 64-pin

Under Development

TMPM382FSFG



Under Development

TMPM382FWFG

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.

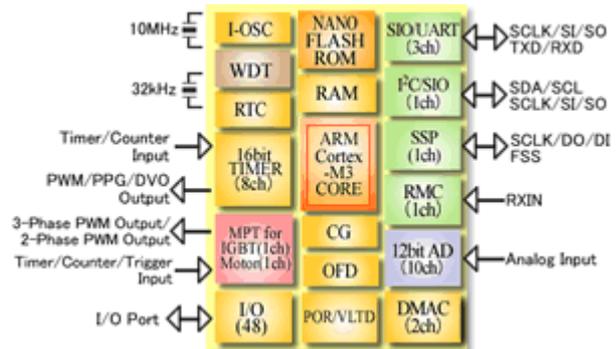
Features

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, 10-channel.
- ▶ Multi-purpose timer (MPT) : 1 channel
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
- ▶ 16-bit timer : 8 channels
- ▶ RTC : 1 channel
- ▶ SIO/UART : 3 channels
- ▶ I²C/SIO : 1 channel (shared with SSP.)
- ▶ SSP(SPI mode) : 1 channel (shared with I²C/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

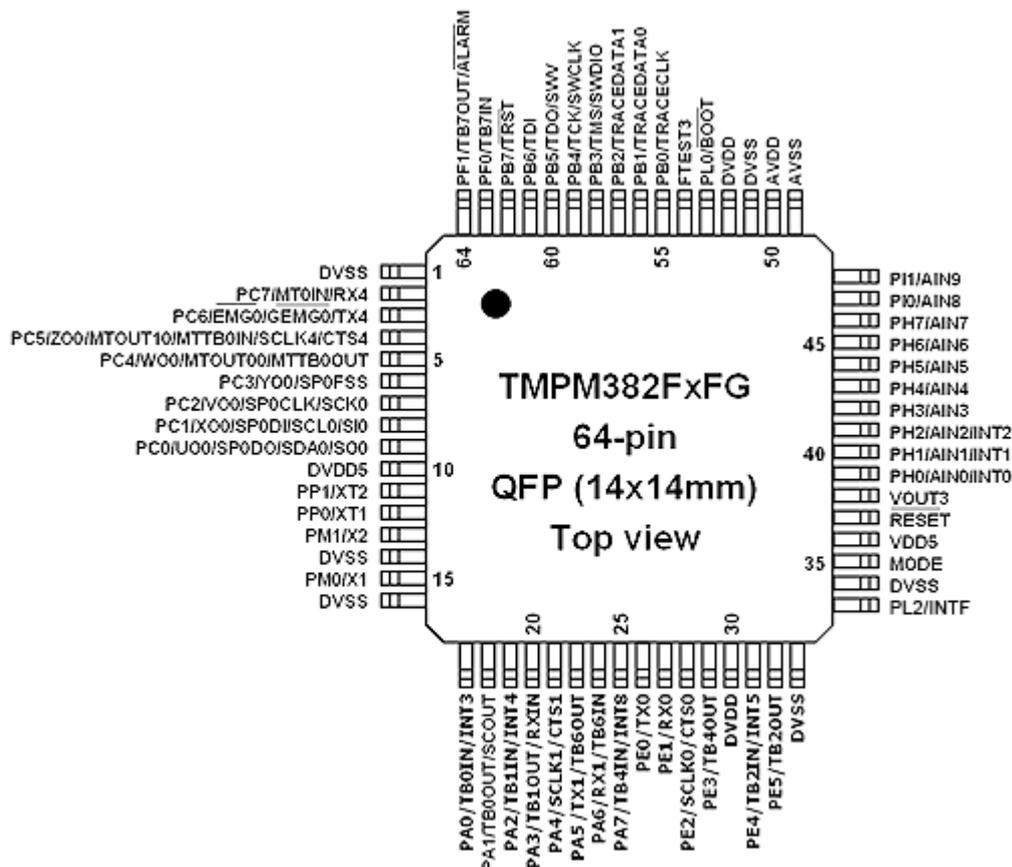
Part number	ROM (Flash)	RAM
TMPM382FSFG**	64 Kbytes	8 Kbytes
TMPM382FWFG**	128 Kbytes	12 Kbytes

** : Under development

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Package Information

Pin Assignments



Package name: QFP64-P-1414-0.80C

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