TX03 Series **32-bit / 48-pin**

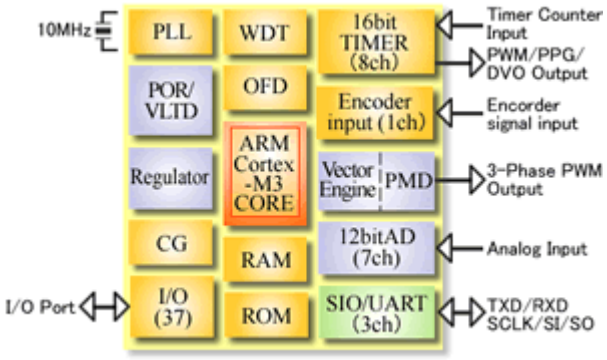
Under Development **TMPM373FWDUG** FLASH

High-performance microcontroller containing hardware "Vector Engine" for handling routine computations for motor vector control and compact package variation, realizing 5-V single-supply operation.

Features

ARM Cortex™-M3 CPU Core

- Operating voltage:
  4.5 to 5.5 V (Single-supply/on-chip regulator)
- Maximum operating frequency:
  80 MHz (10 MHz × 8 by PLL)
- On-chip debug circuit
  JTAG/SWD/SWV
- Low-power consumption operation
  Clock gear (for dividing clock to 1/2, 1/4, 1/8 or 1/16)
  Standby modes (IDLE, STOP mode)



Built-in Functions

- Next-generation PMD (motor control timer) : 1 channel
  Vector Engine : 1 channel
  Encoder input : 1 channel
- 12-bit AD converter : 7 channels
- 16-bit timer : 8 channels
- SIO/UART : 3 channels
- Watchdog timer (WDT)
- Power-on reset circuit
- Voltage detection circuit
- Oscillation frequency detector

Flash Memory Size

Part number	ROM (Flash)	RAM
TMPM373FWDUG**	128 Kbytes	6 Kbytes

**:Under development

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