## **TX03 Series**

# Under Development TMPM374FWUG

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**

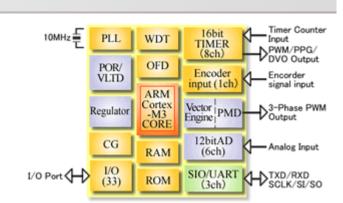
#### ARM Cortex<sup>TM</sup>-M3 CPU Core

- Operating voltage: 4.5 to 5.5 V (Single-supply/on-chip regulator)
- Maximum operating frequency: 80 MHz (10 MHz  $\times$  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 : 6 channels
- ▶ 16-bit timer : 8 channels
- SIO/UART : 3 channels
- Watchdog timer (WDT)
- Power-on reset circuit
- Voltage detection circuit
- Oscillation frequency detector

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### **Flash Memory Size**

Part number	ROM (Flash)	RAM
TMPM374FWUG**	128 Kbytes	6 Kbytes
**·Under development		

Under development

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