TX04 Series — 32bit/176pins,144pins

Under Development TMPM461F15FG Under Development TMPM461F10FG
Under Development TMPM462F15FG Under Development TMPM462F10FG

Microcontrollers are best suited to applications such as printers, AV systems and industrial equipment.

Features

- High performance ARM® Cortex®-M4F core, max. 120MHz operation
- Large-capacity, on-chip 1.5MB Flash for large scale software
- Equipped wide variety of serial channels (max. 20 channels)

Application

Printer, AV receiver, digital products, PC peripheral products, Industrial applications

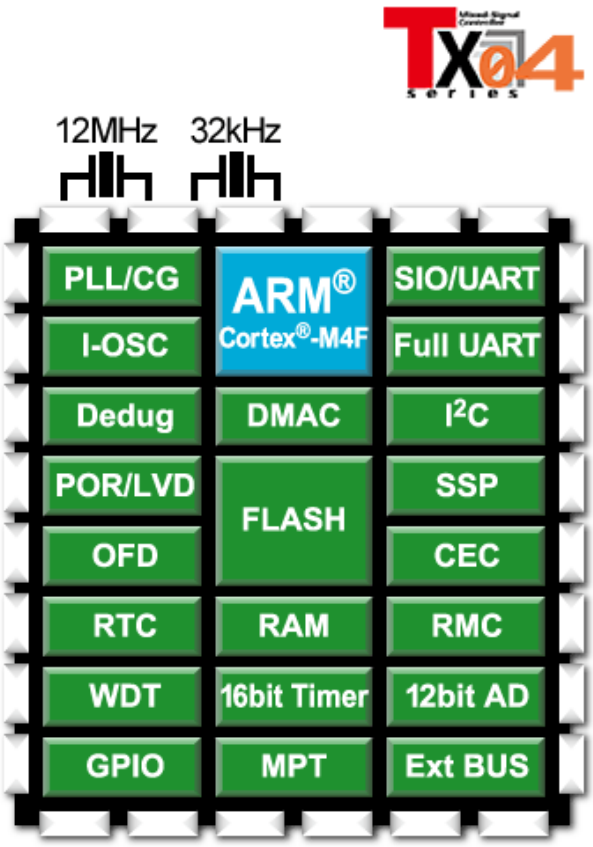
Description

ARM® Cortex®-M4F CPU Core

- Operation voltage : 2.7~3.6V(Single power supply)
- Max. operating frequency : 120MHz
- Debug I/F : JTAG/SWD/SWV w/ 4-bit trace
- Power saving operation :
  Clock gear function : Available
  Standby mode (IDLE/STOP1/STOP2)

Built-in Functions

- 12-bit AD converter : 20 channels
- DMA controller : 32 channels (3units)
- 16-bit timer : 16 channels
- Multi-purpose timer : 2 channels (IGBT control /16 bit timer)
- Serial interface :
  Full UART 2 channels
  UART/SIO 6 channels(TMPM461),
  10 channels(TMPM462)
  I^2C (100kHz,400kHz) 5 channels
  SSP (SPI/SSI/Microwire) 3 channels
- CEC : 1 channel
- Remote controller(RMC) : 1 channel(TMPM461),
  2 channels(TMPM462)
- External bus I/F : 8/16bit (Multiplex/Separate)
- External interrupt : 17 channels (including NMI)
- RTC : 1 channel
- WDT : 1 channel
- Build-in high speed oscillation circuit
- Low voltage detector (LVD) and Power-on reset (POR)



Package/Memory Variation

Part number	ROM (Flash)	RAM	Package
TMPM461F15FG**	1.5 MB	193KB	LQFP144 (20×20mm, 0.5mm pitch)
TMPM461F10FG**	1.0 MB		
TMPM462F15FG**	1.5 MB		LQFP176 (20×20mm, 0.4mm pitch)
TMPM462F10FG**	1.0 MB		

**:Under development

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