

MB9BF529TPMC-GE1 Product Specifications

Performance

CPU: **32-bit**
Max CPU Clock Speed: **60 MHz**

Memory

Flash: **1536 kbytes** Flash Memory Size: **1536 kbytes**
Flash Security (Read Protection): **Yes** RAM: **192 kbytes**
Dual Op Flash: **1536 kbytes** RAM (code & data): **192 kbytes**
Work Flash: **64 kbytes**

System Peripherals

Ext IRQ: **33 Ch.** Low Voltage Detection (LVD): **Yes**
DMA: **8 Ch.** Cyclic Redundancy Check: **Yes**
Watchdog: **2**

Communications

UART: **16 Ch. (Max)** CAN: **1 Ch.**
SIO: **16 Ch. (Max)** USB: **1 Ch.**
I2C: **16 Ch. (Max)** External Bus: **Yes**

Timers

Base Timer: **16** Waveform Generator (WFG): **3 Ch. (Max)**
Reload Timer: **17** Programmable Pulse Generator
Multi Function Timer (MFT): **1** (PPG):
Quadrature Position/Revolution **2 Ch.** Pulse Width Counter (PWC): **16 Ch. (Max)**
Counter: Pulse Width Modulator (PWM): **16 Ch. (Max)**
Input Capture Unit (ICU): **4 Ch. (Max)** Real Time Clock (RTC): **Yes**
Output Compare Unit (OCU): **6 Ch. (Max)**

Analog

ADC: **24 Ch.** DAC: **2 Ch.**
A/D Conversion Time: **2 µsec** DAC Resolution: **10-bit**
A/D Resolution: **12-bit**

Others

GPIOs: **154**

Operating Conditions

Min Operating Voltage: **2.7 V** Min Operating Temperature: **-40° (C)**
Max Operating Voltage: **5.5 V** Max Operating Temperature: **105° (C)**

Packaging

Package / Pin Count: **176**
Package Code: **FPT-176P-
M07**
Package (pin/pitch): **"LQFP 176,
0.5"**