

February 28, 2012

## Main Specifications of the RX63T MCU

	RX63T Group
CPU core	RX CPU <ul style="list-style-type: none"> <li>• General registers: 32-bit x 16</li> <li>• Multiplier: 32-bit multiplier</li> <li>• Divider: Yes</li> <li>• Multiply-accumulator: Yes (two types: memory-to-memory operations and register-to-register operations)</li> </ul>
Maximum operating frequency	80 MHz
Power supply voltage	2.7 to 3.6 V
Floating-point processing unit	Single-precision floating-point processing unit (Supports add /subtract /compare /multiply /divide and other instructions)
Flash ROM (for program storage)	Max. 64 KB
Flash ROM (for data storage)	Max. 8 KB
RAM	Max. 8 KB
On-chip peripheral functions	<ul style="list-style-type: none"> <li>• DMA controller (DMACA) x 4 channels</li> <li>• Data transfer controller (DTC) x 1 channel</li> <li>• Multifunction pin controller (MPC) x 1 channel</li> <li>• Multifunction timer pulse unit (MTU3) x 8 channels</li> <li>• Port output enable (POE3)</li> <li>• General PWM timer (GPT) x 4 channels</li> <li>• Compare match timer (CMT) x 4 channels</li> <li>• Watchdog Timer (WDT)</li> <li>• Independent Watchdog Timer (IWDT)</li> <li>• Serial communication interface (SC1c) x 2 channels</li> <li>• Serial communication interface (SC1d) x 1 channel</li> </ul>

	<b>RX63T Group</b>
	<ul style="list-style-type: none"> <li>• I2C bus interface × 1 channel</li> <li>• Serial Peripheral Interface (RSPI) × 1 channel</li> <li>• A/D converter (12-bit) 64-pin: 8 channels; 48-pin: 6 channels</li> <li>• Clock Frequency Accuracy Measurement Circuit (CAC)</li> <li>• CRC calculator (CRC)</li> <li>• Data Operation Circuit (DOC)</li> <li>• Register write protection function</li> <li>• Option setting memory area</li> <li>• Power-On Reset (POR) / Voltage Detection Circuit (LVD)</li> </ul>
On-chip debugging function	Yes (with trace function)
Low power consumption modes	4 modes <ul style="list-style-type: none"> <li>• Sleep mode</li> <li>• All-module clock stop mode</li> <li>• Software standby mode</li> <li>• Deep software standby mode</li> </ul>
Packages	LQFP64, LQFP48

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