

**Main Specifications of the RX23T Group of MCUs**

Group name	RX23T Group		
	48-pin LQFP 0.5 mm	52-pin LQFP 0.65 mm	64-pin LQFP 0.5 mm
Flash ROM (KB)	64 to 128		
RAM (KB)	10		
Power supply voltage	2.7 V to 5.5 V		
Operating frequency	40 MHz		
I/O ports	I/O:35 Input:1	I/O:38 Input:1	I/O:48 Input:1
CPU	32-bit CPU RXv2 (Floating-point instructions: 11, DSP instructions: 23)		
FPU	Single precision (32-bit) floating point Data types and floating-point exceptions in conformance with the IEEE754 standard		
Peripheral functions	3-phase non-overlapping waveform output for inverter control: 1 channel		
	Phase counting modes for encoder sensor		
	Controls the high-impedance state for PWM output		
	12-bit AD converter (10ch): Three sample-and-hold circuits for current sensing		
	Comparator: 3 channels (D/A converter (DA) for generating comparator reference voltage)		
	Serial communications interfaces: 2 channels		
	I2C bus interface: 1 channel		
	Serial peripheral interface (SPI): 1 channel		
Safety functions	Clock frequency accuracy measurement circuit		
	RAM test assistance functions using the DOC		
	Independent watchdog timer		
	Self-diagnostic and disconnection-detection assistance functions for the A/D converter		
	CRC calculator (CRC)		
	Register write protection function		
Operating temperature range	Ta = -40 to +85°C, -40 to 105°C		
Part no. (ROM 64 KB, Ta = -40 to +85°C)	R5F523T3ADFL	R5F523T3ADFD	R5F523T3ADFM

(Note) Part number varies according to the ROM size and operating temperature.

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