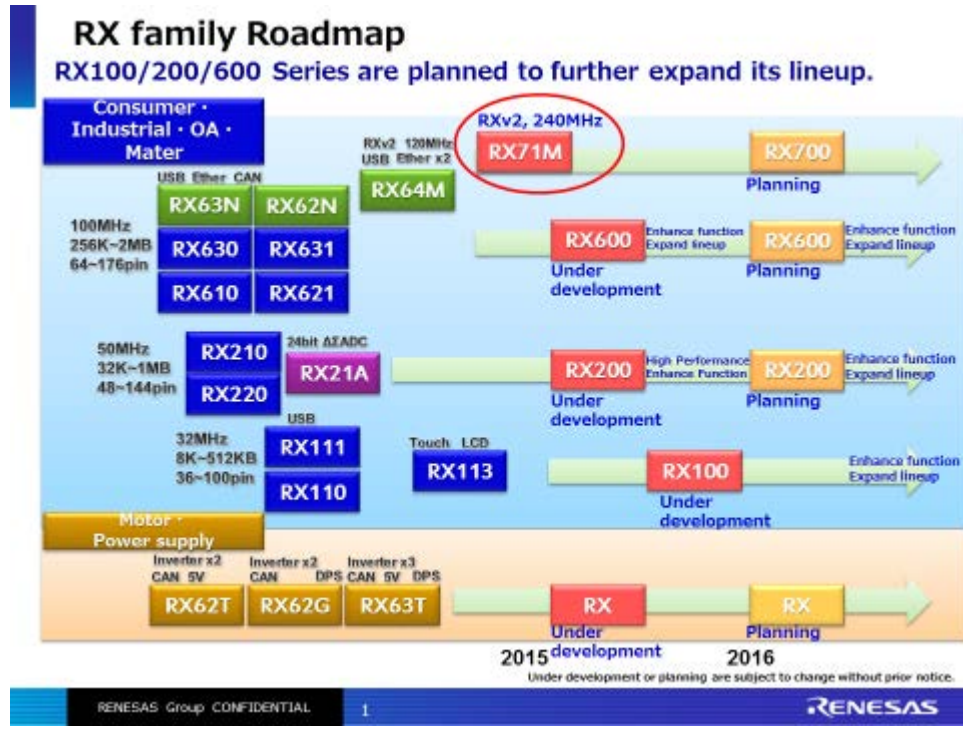


January 27, 2015

Product Specifications of the RX71M Group of MCUs



Item		RX71M Group			
P/N (xxx: options, Package code)		R5F571MLxxx	R5F571MJxxx	R5F571MGxxx	R5F571MFxxx
Memory	Code flash	4 MB	3 MB	2.5 MB	2 MB
	Data flash	64 KB			
	RAM	SRAM with parity check: 512 KB ECCRAM: 32 KB Standby RAM: 8 KB			
CPU core		CPU RXv2 <ul style="list-style-type: none"> General registers: 32-bit x 16 Multiplier: 32-bit multiplier Divider: Yes 			

Item		RX71M Group
		<ul style="list-style-type: none"> • Multiply-accumulator: Yes (two types: memory-to-memory operations and register-to-register operations)
Floating-point processing unit		Single-precision floating-point processing unit (Supports add/subtract/compare/multiply/divide and other instructions)
Maximum operating frequency/ power supply voltage		240 MHz / 2.7 to 3.6 V
Clock functions	Main clock	8 to 24 MHz
	Sub clock	32.768 KHz
	On-chip oscillator	IWDT: 120 KHz LOCO: 240 KHz HOCO: 16/18/20 MHz selectable
On-chip peripheral functions		<ul style="list-style-type: none"> • External bus • DMAC: 8 channels • Data transfer controller (DTC) • General purpose 16-bit timer • 16-bit multifunction timer pulse unit • Programmable pulse generator • 8-bit timer: 4 channels • Compare match timer • Real-time clock (RTC) • Watchdog timer • Independent watchdog timer • Serial communication interface: 9 channels • Serial communication interface with FIFO: 4 channels • Serial peripheral interface: 2 channels • Quad serial peripheral interface • Serial sound interface • I2C bus interface: 3 channels • Ethernet controller with IEEE1588 • USB High/Full Speed • CAN: 3 channels

Item	RX71M Group
	<ul style="list-style-type: none"> • Parallel data capture unit (PDC) • 12-bit A/D converter: 8 + 21 channels • 12-bit D/A converter: 2 channels • Temperature sensor • CRC calculator • Power-on reset circuit (POR) • Voltage detection circuit (LVD) <p><Options></p> <ul style="list-style-type: none"> • SD host interface • Encryption (AES, DES, SHA, true random number generator (RNG))
Operating temperature	-40 to +85°C
Package	177-pin TFLGA (PTLG0177KA-A) 176-pin LFBGA (PLBG0176GA-A) 176-pin LQFP (PLQP0176KB-A) 145-pin TFLGA (PTLG0145KA-A) 144-pin LQFP (PLQP0144KA-A) 100-pin TFLGA (PTLG0100JA-A) 100-pin LQFP (PLQP0100KB-A)

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