

October 8, 2013

Product Specifications of the RX631 Group of MCUs with Built-In PDC

Group		RX631			
Pin count		144-pin LQFP	145-pin LGA	176-pin LQFP/BGA	177-pin LGA
Part number		R5F5631xxxFB	R5F5631xxxLK	R5F5631xxxFC/ R5F5631xxxBG	R5F5631xxxLC
ROM (Byte)		256 K/384 K/512 K			
E2Data Flash (Byte)		32 K			
RAM (Byte)		128 K			
Operating Frequency	Internal	CPU: 100 MHz (max) Peripheral: 50 MHz (max)			
	External	50 MHz (max)			
CPU		RX CPU core			
PDC		Yes			
Connectivity		USB2.0 F.S (H/F/OTG) × 1 ch CAN × 2 ch I2C × 4 ch SPI × 3 ch SCI × 13 ch	USB2.0 F.S (H/F/OTG) × 1 ch USB2.0 F.S (F) × 1 ch CAN × 2 ch I2C × 4 ch SPI × 3 ch SCI × 13 ch		
External Bus		8/16 bit bus width connectable SRAM, SDRAM	8/16/32bit bus width connectable SRAM, SDRAM		
Timer		MTU × 6 ch TPU × 12 ch TMR × 4 ch CMT × 4 ch PPG × 2 ch			
12-bit ADC		21 ch			
10-bit DAC		2 ch			
External input		15 ch + NMI			
DMA/DTC/EXDMAC		4 ch/1 ch/2 ch			
Other peripheral functions		Voltage detection circuit (LVD0, 1, 2), Power On Reset (POR), WDT × 1 ch, IWDT × 1 ch, Temp sensor × 1 ch, IeBUS × 1 ch, Real Time Clock (RTC), Safety functions			
Operating voltage		2.7 V to 3.6 V			
Operating temperature		-40°C to 85°C			

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