

November 16, 2011

Main Specifications of Renesas' RL78/G1A MCUs

Product name	RL78/G1A				
Pin count	25-pin	32-pin	48-pin	64-pin	
Package	LGA	QFN	QFN, QFP	BGA, QFP	
Part number	R5F10E8	R5F10EB	R5F10EG	R5F10EL	
Flash ROM	16 KB to 64 KB	16 KB to 64 KB	16 KB to 64 KB	32 KB to 64 KB	
Data flash	4 KB				
RAM	2 KB to 4 KB				
Clock generator	Crystal/ceramic 1 MHz to 20 MHz, 32.768 KHz High-speed OCO 1 MHz to 32 MHz Low-speed OCO 15 KHz				
12-bit A/D converter	13 ch	18 ch	24 ch	28 ch	
Timer	16-bit: 6 ch 16-bit / 8-bit × 2: 2 ch				
12-bit interval timer	1 ch				
Serial interfaces	CSI	2 ch	3 ch	5 ch	6 ch
	Simple I ² C	2 ch	3 ch	5 ch	6 ch
	UART	2 ch	3 ch	3 ch	3 ch
LIN support UART	–	Support 1 ch of the above UART			
Multi-master I ² C	1 ch				
Ext. interrupt	5 ch	6 ch	10 ch	13 ch	
DMA	2 ch				
Other peripherals	Multiplier/divider/MAC, low voltage detector (LVD), power-on reset (POR), key return, safety function, real-time clock				
Power supply voltage	1.6 V to 3.6 V				
Operating ambient temperature	–40°C to 85°C				