

**Product Specifications of the RL78/G1D MCUs**

Group name	RL78/G1D
CPU	16-bit CPU
Maximum operating Frequency	32 MHz
Memory	Program flash ROM:128 KB, 192 KB, 256 KB SRAM:12 KB, 16 KB, 20 KB Data flash memory:8 KB
Power supply voltage	1.6V-3.6V (DC-DC:1.8 V to 3.6 V)
Power consumption	RF transmission:4.3 mA@ 3 V, 0 dBm RF reception:3.5 mA@ 3 V
System	High-speed on-chip oscillator 32 MHz Multiplication and Division/ Multiplication and Accumulation library supported
RF	Bluetooth v4.1 single mode master/slave specification Receiver sensitivity:-90dBm Maximum transmitting output power:0dBm Cipher hard-engine (AES/CCM) Adaptable RF function Software protocol stack (wireless update supported) Can be connected to 8 master devices On-chip oscillator of 32.768 KHz for RF connection
Timer	Timer array unit (TAU) Watchdog timer Real-time clock
Analog	10-bit A/D converter 8 channels Internal reference voltage (1.45 V)
Serial I/F	Serial communication interface: 2 channels UART: 2 channels I2 C bus interface: 1 channel Simple I2 C: 2 channels
Safety functions	Safety functions to comply with the IEC60730 and IEC61508 safety standards. Illegal memory access function
Operating temperature	-40°C - +85°C
Package	WQFN 6 x 6 mm 48 pin, 0.4 mm pitch
Part number	R5F11AGx (Note)

(Note) Part number varies according to the ROM size, etc.

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