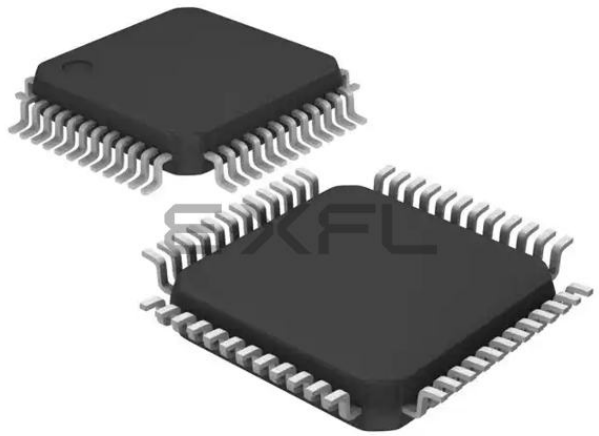
Renesas Electronics America Inc - R5F101GHDFB#50 Datasheet



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What is "Embedded - Microcontrollers"?

"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "Embedded - Microcontrollers"

Details	
Product Status	Active
Core Processor	RL78
Core Size	16-Bit
Speed	32MHz
Connectivity	CSI, I²C, LINbus, UART/USART
Peripherals	DMA, LVD, POR, PWM, WDT
Number of I/O	34
Program Memory Size	192KB (192K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	16K x 8
Voltage - Supply (Vcc/Vdd)	1.6V ~ 5.5V
Data Converters	A/D 10x8/10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	48-LQFP
Supplier Device Package	48-LFQFP (7x7)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f101ghdfb-50

Table 1-1. List of Ordering Part Numbers

(8/12)

Pin count	Package	Data flash	Fields of Application Note	Ordering Part Number
64 pins	64-pin plastic LQFP (12 u12 mm, 0.65 mm pitch)	Mounted	A	R5F100LCAFA#V0, R5F100LDAFA#V0, R5F100LEAFA#V0, R5F100LFAFA#V0, R5F100LGAFA#V0, R5F100LHAFA#V0, R5F100LJAFA#V0, R5F100LKAFA#V0, R5F100LLAFA#V0 R5F100LCAFA#X0, R5F100LDAFA#X0, R5F100LEAFA#X0, R5F100LFAFA#X0,
			D	R5F100LGAFA#X0, R5F100LHAFA#X0, R5F100LJAFA#X0, R5F100LKAFA#X0, R5F100LLAFA#X0 R5F100LCDFA#V0, R5F100LDDFA#V0, R5F100LEDFA#V0, R5F100LFDFA#V0, R5F100LGDFA#V0, R5F100LHDFA#V0, R5F100LJDFA#V0, R5F100LKDFA#V0, R5F100LLDFA#V0
			G	R5F100LCDFA#X0, R5F100LDDFA#X0, R5F100LEDFA#X0, R5F100LFDFA#X0, R5F100LGDFA#X0, R5F100LHDFA#X0, R5F100LJDFA#X0, R5F100LKDFA#X0, R5F100LLDFA#X0 R5F100LCGFA#V0, R5F100LDGFA#V0, R5F100LEGFA#V0, R5F100LFGFA#V0 R5F100LCGFA#X0, R5F100LDGFA#X0, R5F100LEGFA#X0, R5F100LFGFA#X0 R5F100LGGFA#V0, R5F100LHGFA#V0, R5F100LJGFA#V0 R5F100LGGFA#X0, R5F100LHGFA#X0, R5F100LJGFA#X0
		Not mounted	A	R5F101LCAFA#V0, R5F101LDAFA#V0, R5F101LEAFA#V0, R5F101LFAFA#V0, R5F101LGAFA#V0, R5F101LHAFA#V0, R5F101LJAFA#V0, R5F101LKAFA#V0, R5F101LLAFA#V0 R5F101LCAFA#X0, R5F101LDAFA#X0, R5F101LEAFA#X0, R5F101LFAFA#X0,
			D	R5F101LGAFA#X0, R5F101LHAFA#X0, R5F101LJAFA#X0, R5F101LKAFA#X0, R5F101LLAFA#X0 R5F101LCDFA#V0, R5F101LDDFA#V0, R5F101LEDFA#V0, R5F101LFDFA#V0, R5F101LGDFA#V0, R5F101LHDFA#V0, R5F101LJDFA#V0, R5F101LKDFA#V0, R5F101LLDFA#V0 R5F101LCDFA#X0, R5F101LDDFA#X0, R5F101LEDFA#X0, R5F101LFDFA#X0, R5F101LGDFA#X0, R5F101LHDFA#X0, R5F101LJDFA#X0, R5F101LKDFA#X0, R5F101LLDFA#X0

Note For the fields of application, refer to Figure 1-1 Part Number, Memory Size, and Package of RL78/G13 .

Caution The ordering part numbers represent the numbers at the time of publication. For the latest ordering part numbers, refer to the target product page of the Renesas Electronics website.