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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, I ² C, UART/USART
Peripherals	LVD, POR, PWM, WDT
Number of I/O	41
Program Memory Size	256KB (256K x 8)
Program Memory Type	FLASH
EEPROM Size	8K x 8
RAM Size	24K x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V
Data Converters	A/D 6x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	64-VFQFN Exposed Pad
Supplier Device Package	64-HVQFN (9x9)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/r5f11fljana-20

R5F11FLJANA

Product Info

Product Spec

Basic Information	
Product Status	New
Family	RL78
Series	RL78/G1x
Group	RL78/G1H

Memory	
Program memory	256 KB Flash memory
RAM	24 KB
Data Flash	8 KB

CPU (Bit, Clock, DMA, External Bus etc)	
CPU	RL78 (16-bit)
Max. Frequency	32 MHz
Sub-Clock (32.768 kHz)	YES
On-chip Oscillator Freq.	High-Speed: 32, 24, 16, 12, 8, 4, 1MHz Low-speed: 15kHz
Real-Time Clock (RTC)	YES
Power-On Reset	YES
Low Voltage Detection	YES
External Interrupt Pins	7
I/O Ports	41

Timers	
16-bit Timers	9 ch
Watchdog Timers	1 ch
Other Timers	12-bit Interval Timer x 1 ch


Analog	
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A/D Converters	10-bit x 6 ch
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Interfaces	
CSIs	4 ch
UARTs	2 ch
I2Cs	2 ch

Operating Conditions	
Operating Voltage	1.8 to 3.6 V
Operating Temperature	-40 to 85 °C (Ambient Temperature)

Remarks	
Remarks	920MHZ Radio communication

Package	
Pins	64
Terminal pitch (mm)	0.5 mm
Package Type	HVQFN
Dimensions (mm)	9x9 mm ²
Drawing Link	 pvqn0064kc_a
Mounting height (mm)[MAX]	1 mm
Mass (g) [TYP,]	0.21 g
Renesas code	PVQN0064KC-A (old: -)
JEITA code	P-HVQFN64-9x9-0.50
Terminal material - Base	Cu alloy
Terminal material - Surface	Ni/Pd/Au