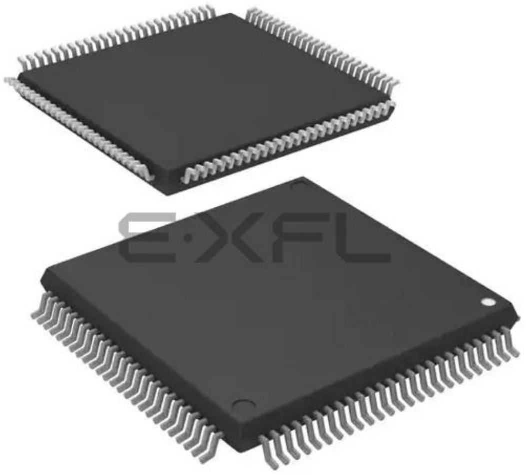

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What is "Embedded - Microcontrollers"?

"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	SH-2
Core Size	32-Bit Single-Core
Speed	80MHz
Connectivity	CANbus, EBI/EMI, SCI, SSU
Peripherals	POR, PWM, WDT
Number of I/O	57
Program Memory Size	256KB (256K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	16K x 8
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V
Data Converters	A/D 12x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	100-LQFP
Supplier Device Package	100-LFQFP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/df71474bj80fpv

SH7147 Group Manuals:

Document Title	Document No.
SH7147 Group Hardware Manual	This manual
SH-1/SH-2/SH-DSP Software Manual	REJ09B0171

User's Manuals for Development Tools:

Document Title	Document No.
SuperH™ RISC engine C/C++ Compiler, Assembler, Optimizing Linkage Editor Compiler Package V.9.00 User's Manual	REJ10B0152
SuperH™ RISC engine High-performance Embedded Workshop 3 User's Manual	REJ10B0025
SuperH RISC engine High-Performance Embedded Workshop 3 Tutorial	REJ10B0023

Application Note:

Document Title	Document No.
SuperH RISC engine C/C++ Compiler Package Application Note	REJ05B0463