Renesas Electronics America Inc - HD64F7144F50V 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	SH-2
Core Size	32-Bit Single-Core
Speed	50MHz
Connectivity	EBI/EMI, I²C, SCI
Peripherals	DMA, POR, PWM, WDT
Number of I/O	74
Program Memory Size	256KB (256K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	8K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-20°C ~ 75°C (TA)
Mounting Type	Surface Mount
Package / Case	112-BQFP
Supplier Device Package	112-QFP (20x20)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/hd64f7144f50v