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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	H8SX
Core Size	32-Bit Single-Core
Speed	50MHz
Connectivity	SCI, SmartCard
Peripherals	DMA, PWM, WDT
Number of I/O	82
Program Memory Size	-
Program Memory Type	ROMless
EEPROM Size	-
RAM Size	24K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-20°C ~ 75°C (TA)
Mounting Type	Surface Mount
Package / Case	120-LQFP
Supplier Device Package	120-LQFP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/renesas-electronics-america/ds61650cn50fpv

11.3 Register Descriptions

The TMR has the following registers.

Unit 0:

x Channel 0

- Timer counter_0 (TCNT_0)
- Time constant register A_0 (TCORA_0)
- Time constant register B_0 (TCORB_0)
- Timer control register_0 (TCR_0)
- Timer counter control register_0 (TCCR_0)
- Timer control/status register_0 (TCSR_0)

x