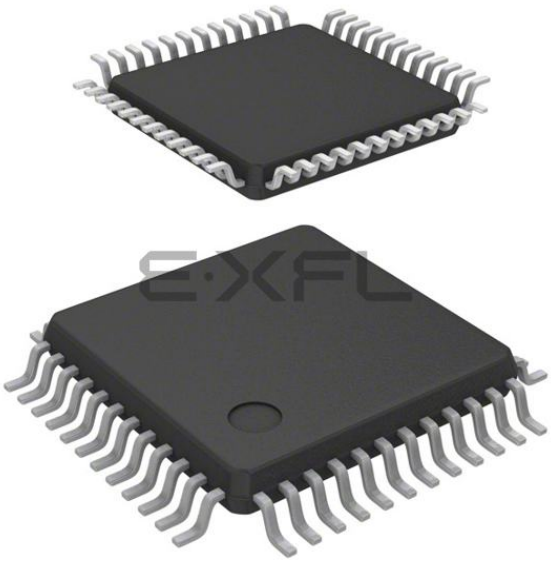

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What is "Embedded - Microcontrollers"?

"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	SAM88RC
Core Size	8-Bit
Speed	12MHz
Connectivity	I²C, SPI, UART/USART
Peripherals	LCD, LVD, LVR, PWM, WDT
Number of I/O	40
Program Memory Size	32KB (32K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	2K x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V
Data Converters	A/D 10x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	48-QFP
Supplier Device Package	48-QFP (10x10)
Purchase URL	https://www.e-xfl.com/product-detail/zilog/s3f8s19xzz-qr89

The S3 Family of Microcontrollers

Zilog's S3 Family of Microcontrollers offers a fast and efficient processor core, Flash memory, a wide range of integrated peripherals, and an efficient register-oriented architecture designed to facilitate a multitude of consumer and home appliance applications. Table 1 shows available devices targeted for low power applications such as IR remote controls; Table 2 lists available devices that are ideally suited for consumer and home appliance applications.

The S3 Family has a long and successful track record in many consumer applications; combined with Zilog's recognized commitment to the 8-bit MCU market, the S3 Family of devices is your proven choice.

Table 1. S3 Family Low Power Devices

Part Number		
S3F80P5	S3F80P9	S3F80PB
S3F80Q5	S3F80QB	

Table 2. S3 Family Consumer/Appliance Devices

Part Number		
S3F82NB	S3F8S35	S3F8S8B
S3F84B8	S3F8S39	S3F94C4
S3F8S15	S3F8S45	S3F84I9*
S3F8S19	S3F8S5A	S3F828B*
S3F8S24	S3F8S6B	S3FC40D*
S3F8S28	S3F8S7B	S3F84NB*

Note: *Not recommended for new designs.

Table 3. Replacements for EOL Products

EOL Part	Replacement
S3F84K4, S3F9454	S3F94C4
S3F84A5, S3F84H5, S3F84Q5, S3F84T5, S3F80N8, S3F80L4, S3F94A5	S3F8S39
*S3F9488, S3F84I8, S3F94A5, S3F9228, S3F84U8	S3F8S45
*S3F84I9, S3F84UA	S3F8S5A
*S384VB, S3F8235, S3F8274, S3F8275, S3F8278, S3F84NB, S3F848A, S39234	S3F8S6B
*S384YB, S3C8245, S3F8285, S3F8289, S3F828B, S3F82I9, S3F84MB, S3P7335, S3P8245, S3P8249, S3P825A	S3F8S7B
*S3F84ZB, S3F82HB, S3F833B, S3P72P9, S3P72Q5	S3F8S8B

Note: Items marked with a * are pin-for-pin equivalent with their replacement devices. Some firmware modifications may be required. Contact your local Zilog Sales Representative.

Customer Support

To share comments, get your technical questions answered, or report issues you may be experiencing with our products, please visit Zilog's Technical Support page at http://support.zilog.com.

To learn more about this product, find additional documentation, or to discover other facets about Zilog product offerings, please visit the Zilog Knowledge Base at http://zilog.com/kb or consider participating in the Zilog Forum at http://zilog.com/forum.

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As used herein

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