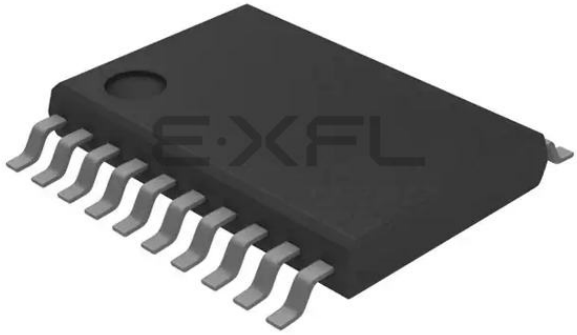

Welcome to E-XFL.COM

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	Obsolete
Core Processor	XC800
Core Size	8-Bit
Speed	86MHz
Connectivity	LINbus, SSI, UART/USART
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	9
Program Memory Size	4KB (4K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	768 x 8
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V
Data Converters	A/D 4x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	20-TSSOP (0.173", 4.40mm Width)
Supplier Device Package	PG-TSSOP-20
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc864l1fri5vaakxuma1

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Information

For further information on technology, delivery terms and conditions and prices, please contact the nearest Infineon Technologies Office (**www.infineon.com**).

Warnings

Due to technical requirements, components may contain dangerous substances. For information on the types in question, please contact the nearest Infineon Technologies Office.

Infineon Technologies components may be used in life-support devices or systems only with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.

Never stop thinking

8-Bit

XC864

8-Bit Single-Chip Microcontroller

Data Sheet

V1.1 2009-03

Microcontrollers

XC864 Data Sheet **Revision History:**	**2009-03**	V 1.1
Previous Version:	V1.0	
Page	Subjects (major changes since last revision)	
Changes from V1.0 2008-08 to V1.1 2009-03		
3	Modified the paragraph to remove the Automotive quality profile	

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Any information within this document that you feel is wrong, unclear or missing at all?
Your feedback will help us to continuously improve the quality of this document.
Please send your proposal (including a reference to this document) to:

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XC864 Variant Devices

The XC864 product family features devices with different power supply range and temperature, offering cost-effective solution for different application requirements. The package type available is TSSOP-20.

Table 1-1 summarizes the list of XC864 devices.

Table 1-1 Device Profile

Sales Type	Device Type	Program Memory (Kbytes)	Power Supply (V)	Temp-erature Profile (°C)	Quality Profile
SAK-XC864L-1FRI 5V	Flash	4	5.0	-40 to 125	Industrial
SAK-XC864L-1FRI 3V3	Flash	4	3.3	-40 to 125	Industrial
SAF-XC864L-1FRI 5V	Flash	4	5.0	-40 to 85	Industrial
SAF-XC864L-1FRI 3V3	Flash	4	3.3	-40 to 85	Industrial

Ordering Information

The ordering code for Infineon Technologies microcontrollers provides an exact reference to the required product. This ordering code identifies:

- The derivative itself, i.e. its function set, the temperature range, and the supply voltage
- the package and the type of delivery

For the available ordering codes for the XC864, please refer to your responsible sales representative or your local distributor.

As this document refers to all the derivatives, some descriptions may not apply to a specific product. For simplicity all versions are referred to by the term XC864 throughout this document.