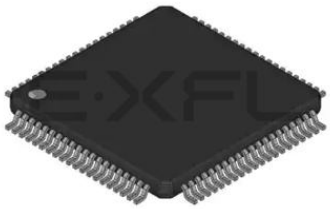

Welcome to E-XFL.COM

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	C166SV2
Core Size	16/32-Bit
Speed	100MHz
Connectivity	CANbus, EBI/EMI, I²C, LINbus, SPI, SSC, UART/USART, USI
Peripherals	I²S, POR, PWM, WDT
Number of I/O	75
Program Memory Size	576KB (576K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	50K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V
Data Converters	A/D 16x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	100-LQFP Exposed Pad
Supplier Device Package	PG-LQFP-100-8
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/xc2361a72f100laahxuma1

Table 6 Pin Definitions and Functions (cont'd)

Pin	Symbol	Ctrl.	Type	Function
18	P15.5	I	In/A	Bit 5 of Port 15, General Purpose Input
	ADC1_CH5	I	In/A	Analog Input Ch annel 5 for ADC1
	T6EUDA	I	In/A	GPT12E Timer T6 External Up/Down Control Input
19	P15.6	I	In/A	Bit 6 of Port 15, General Purpose Input
	ADC1_CH6	I	In/A	Analog Input Ch annel 6 for ADC1
20	V_{AREF}	-	PS/A	Reference Voltage for A/D Converters ADC0/1
21	V_{AGND}	-	PS/A	Reference Ground for A/D Converters ADC0/1
22	P5.0	I	In/A	Bit 0 of Port 5, General Purpose Input
	ADC0_CH0	I	In/A	Analog Input Ch annel 0 for ADC0
23	P5.2	I	In/A	Bit 2 of Port 5, General Purpose Input
	ADC0_CH2	I	In/A	Analog Input Ch annel 2 for ADC0
	TDI_A	I	In/A	JTAG Test Data Input
24	P5.3	I	In/A	Bit 3 of Port 5, General Purpose Input
	ADC0_CH3	I	In/A	Analog Input Ch annel 3 for ADC0
	T3INA	I	In/A	GPT12E Timer T3 Count/Gate Input
28	P5.4	I	In/A	Bit 4 of Port 5, General Purpose Input
	ADC0_CH4	I	In/A	Analog Input Ch annel 4 for ADC0
	T3EUDA	I	In/A	GPT12E Timer T3 External Up/Down Control Input
	TMS_A	I	In/A	JTAG Test Mode Selection Input
29	P5.5	I	In/A	Bit 5 of Port 5, General Purpose Input
	ADC0_CH5	I	In/A	Analog Input Ch annel 5 for ADC0
	CCU60_T12 HRB	I	In/A	External Run Control Input for T12 of CCU60