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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	PIC
Core Size	8-Bit
Speed	40MHz
Connectivity	I <sup>2</sup> C, SPI, UART/USART
Peripherals	Brown-out Detect/Reset, HLVD, POR, PWM, WDT
Number of I/O	54
Program Memory Size	96KB (48K x 16)
Program Memory Type	FLASH
EEPROM Size	1K x 8
RAM Size	3.8K x 8
Voltage - Supply (Vcc/Vdd)	4.2V ~ 5.5V
Data Converters	A/D 12x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	64-TQFP
Supplier Device Package	64-TQFP (10x10)
Purchase URL	<a href="https://www.e-xfl.com/product-detail/microchip-technology/pic18f6628-i-pt">https://www.e-xfl.com/product-detail/microchip-technology/pic18f6628-i-pt</a>

5

4

3

2

1

D

C

B

A

Druckschraube/  
pressing screw

Druckringe/  
pressure plate



SW18

Pg11

Ø11

Dichtring/  
sealing

für Kabel- $\phi$  / for cable- $\phi$ : min.10; max.12

 All Dimensions in mm Original Size DIN A 4			Techn. Character.			Nicht tolerierte Maße/Free size tolerances			
				Dat.	Name	Maßstab/Scale  2:1	Verschraubung Pg11/ cable sealing Pg11 Metall, für Standard-Gehäuse/ metal, for standard housings		
			Detail.	06.12.98	Kö				
			Insp.		SDT.				
			Stand.						
413074	31.07.07	ML	HARTING Electric GmbH & Co. KG				TB 09 00 000 5113		
25439			D-32339 Espelkamp						
Mod.	Dat.	Name							
							Sub. TB 09 00 000 51. BI.2/4 v. 1.2.93		Blatt/page