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**Mouser Part #:** 511-STM32F042C6T6  
**Manufacturer Part #:** STM32F042C6T6  
**Manufacturer:** [STMicroelectronics](#)  
**Description:** ARM Microcontrollers - MCU 16/32-BITS MICROS  
**Lifecycle:**  **New At Mouser**

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<b>Product Category:</b>	ARM Microcontrollers - MCU	<input checked="" type="checkbox"/>
<b>RoHS:</b>	 <a href="#">Details</a>	
<b>Core:</b>	<a href="#">ARM Cortex M0</a>	<input type="checkbox"/>
<b>Data Bus Width:</b>	32 bit	<input type="checkbox"/>
<b>Maximum Clock Frequency:</b>	48 MHz	<input type="checkbox"/>
<b>Program Memory Size:</b>	32 kB	<input type="checkbox"/>
<b>Data RAM Size:</b>	6 kB	<input type="checkbox"/>
<b>ADC Resolution:</b>	12 bit	<input type="checkbox"/>
<b>Operating Supply Voltage:</b>	2 V to 3.6 V	<input type="checkbox"/>
<b>Maximum Operating Temperature:</b>	+ 105 C	<input type="checkbox"/>
<b>Package / Case:</b>	LQFP-48	<input type="checkbox"/>
<b>Mounting Style:</b>	SMD/SMT	<input type="checkbox"/>
<b>Brand:</b>	STMicroelectronics	
<b>Data RAM Type:</b>	SRAM	
<b>Interface Type:</b>	CAN, CEC, I2C, I2S, SPI, USART, USB	
<b>Minimum Operating Temperature:</b>	- 40 C	
<b>Number of ADC Channels:</b>	10	
<b>Number of I/Os:</b>	38 I/O	
<b>Processor Series:</b>	ARM Cortex-M	
<b>Program Memory Type:</b>	Flash	
<b>Series:</b>	<a href="#">STM32F0</a>	
<b>Tradename:</b>	<a href="#">STM32</a>	

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