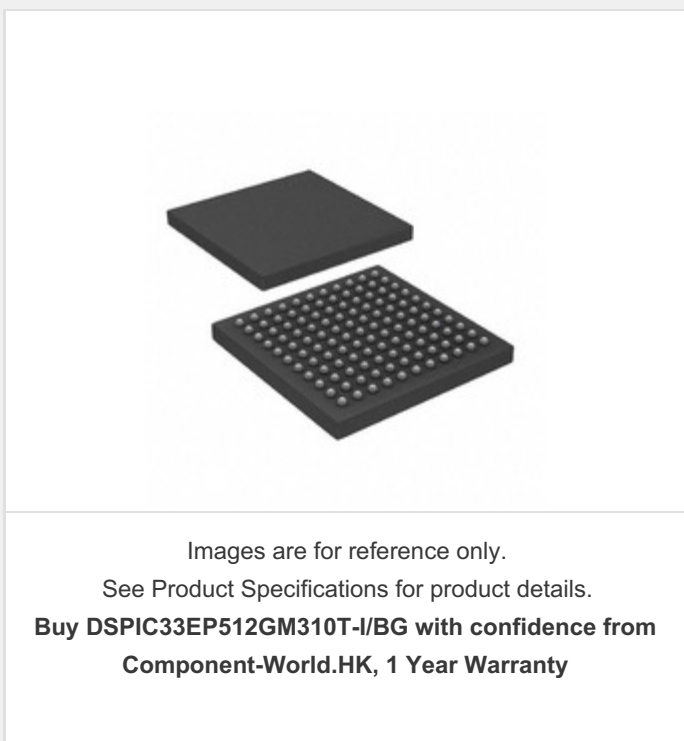


**DSPIC33EP512GM310T-I/BG**



**Part Number:** [DSPIC33EP512GM310T-I/BG](#)  
**Manufacturer:** [Micrel / Microchip Technology](#)  
**Description:** IC MCU 16BIT 512KB FLASH 121BGA  
**Data sheet:** [dsPIC33EPyyyGM3yy,6yy,7yy](#)  
[dsPIC33EPyyyGM3,6,7 Family Errata](#)

**RoHS Status:** Lead free / RoHS Compliant  
**Ship From:** Hong Kong  
**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

[Request For Quotation](#)

PRODUCT PARAMETER	
<b>Part Number</b>	DSPIC33EP512GM310T-I/BG
<b>Description</b>	IC MCU 16BIT 512KB FLASH 121BGA
<b>Quantity Available</b>	17010 pcs
<b>Category</b>	<a href="#">Integrated Circuits (ICs)</a>
<b>Speed</b>	70 MIPs
<b>RAM Size</b>	48K x 8
<b>Program Memory Size</b>	512KB (170K x 24)
<b>Packaging</b>	Tape & Reel (TR)
<b>Oscillator Type</b>	Internal
<b>Number of I/O</b>	85
<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Detailed Description</b>	dsPIC dsPIC™ 33EP Microcontroller IC 16-Bit 70 MIPs 512KB (170K x 24) FLASH 121-TFBGA (10x10)
<b>Core Size</b>	16-Bit
<b>Connectivity</b>	I <sup>2</sup> C, IrDA, LINbus, QEI, SPI, UART/USART
<b>Manufacturer</b>	<a href="#">Micrel / Microchip Technology</a>
<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Data sheet</b>	<a href="#">dsPIC33EPyyyGM3yy,6yy,7yy</a> <a href="#">dsPIC33EPyyyGM3,6,7 Family Errata</a>
<b>Supplier Device Package</b>	121-TFBGA (10x10)
<b>Series</b>	dsPIC™ 33EP
<b>Program Memory Type</b>	FLASH
<b>Peripherals</b>	Brown-out Detect/Reset, DMA, I <sup>2</sup> S, Motor Control PWM, POR, PWM, WDT
<b>Package / Case</b>	121-TFBGA
<b>Operating Temperature</b>	-40°C ~ 85°C (TA)
<b>Moisture Sensitivity Level (MSL)</b>	3 (168 Hours)
<b>EEPROM Size</b>	-
<b>Data Converters</b>	A/D 49x10b/12b
<b>Core Processor</b>	dsPIC

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	<b>Part#:</b> <a href="#">DSPIC33EP512GM306T-I/PT</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 64TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310-I/PF</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 100TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310-I/BG</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 121BGA	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310-E/PF</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 100TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM604-I/PT</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 44TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310-E/PT</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 100TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310T-I/PT</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 100TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM604-I/ML</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 44QFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">DSPIC33EP512GM310-H/PT</a> <b>Description:</b> IC MCU 16BIT 512KB FLASH 100TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
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