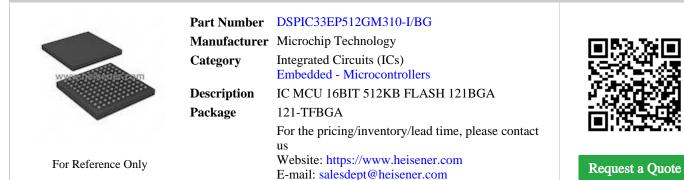


DSPIC33EP512GM310-I/BG

DSPIC33EP512GM310-I/BG Information



Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



DSPIC33EP512GM310-I/BG Specifications

ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore Size16-BitConectivity12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTProgram Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VDetation Type.40°C ~ 85°C (TA)Operating Temperature40°C ~ 85°C (TA)Avage / Case121-TFBGA (10x10)		
CategoryIntegrated Circuits (Cs)Embedded - MicrocontrollersPackage121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore Size16-BitConectivity12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTSeries512KB (170K x 24)Program Memory Size512KB (170K x 24)Perport Memory TypeFLASHSEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Adounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Manufacturer Part Number	DSPIC33EP512GM310-I/BG
Embedded - MicrocontrollersPackage121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivity12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AdM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Advanting Type121-TFBGAPackage / Case121-TFBGA (10x10)	Manufacturer	Microchip Technology
Package121-TFBGAGeriesGePC? 33EPCore ProcessorGePCCore Size16-BitCore Size70 MIPsConnetivityI2C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTProgram Memory Size512KB (170K x 24)Program Memory TypeFLASHPERPOM Size-Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VOtaque - Supply (Vcc/Vdd)3V ~ 3.6 VDeterting Temperature40°C ~ 85°C (TA)Voltage / Case121-TFBGA (10x10)Supplier Device Package121-TFBGA (10x10)	Category	Integrated Circuits (ICs)
NotesdsPIC? 33EPCore ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivity12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersAD 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Advanting Type121-TFBGA (10x10)		Embedded - Microcontrollers
Core ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivity12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHBEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VOperating Temperature-40°C ~ 85°C (TA)Operating Temperature-40°C ~ 85°C (TA)Advage / Case11-TFBGA (10x10)	Package	121-TFBGA
Core Size16-BitSpeed70 MIPsConnectivityI2C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHSEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersAiD 49x10b/12bDetarting Temperature-40°C ~ 85°C (TA)Advanting Type-21Package / Case121-TFBGA (10x10)	Series	dsPIC? 33EP
Speed70 MIPsConnectivityI2C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDetating Temperature-40°C ~ 85°C (TA)Operating Temperature-240°C ~ 85°C (TA)Package / Case121-TFBGA (10x10)	Core Processor	dsPIC
Connectivity I2C, IrDA, LIN, QEI, SPI, UART/USART Peripherals Brown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDT Number of I/O 85 Program Memory Size 512KB (170K x 24) Program Memory Type FLASH BEPROM Size - RAM Size 48K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Detata Converters A/D 49x10b/12b Detating Type Internal Quouting Type - Package / Case 121-TFBGA (10x10)	Core Size	16-Bit
PeripheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTNumber of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Aounting Type-Package / Case121-TFBGA (10x10)	Speed	70 MIPs
Number of I/O85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGAA (10x10)	Connectivity	I2C, IrDA, LIN, QEI, SPI, UART/USART
Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGA (10x10)	Peripherals	Brown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDT
Program Memory TypeFLASHEEPROM Size-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bData ConvertersInternalOperating Temperature-40°C ~ 85°C (TA)Auunting Type-Package / Case121-TFBGA (10x10)	Number of I/O	85
EEPROM Size-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Program Memory Size	512KB (170K x 24)
RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDecillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	EEPROM Size	-
Data ConvertersA/D 49x10b/12bData ConvertersInternalDerating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	RAM Size	48K x 8
Dscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Voltage - Supply (Vcc/Vdd)	3 V ~ 3.6 V
Deperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Data Converters	A/D 49x10b/12b
Mounting Type-Package / Case121-TFBGASupplier Device Package121-TFBGA (10x10)	Oscillator Type	Internal
Package / Case 121-TFBGA Supplier Device Package 121-TFBGA (10x10)	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package 121-TFBGA (10x10)	Mounting Type	-
	Package / Case	121-TFBGA
Depart errors?	Supplier Device Package	121-TFBGA (10x10)
Report errors?		Report errors?

DSPIC33EP512GM310-I/BG Guarantees



Quality Guarantees

We provide 90 days warranty. * If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

DSPIC33EP512GM310-I/BG Payment Methods



If you have any question about DSPIC33EP512GM310-I/BG, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com