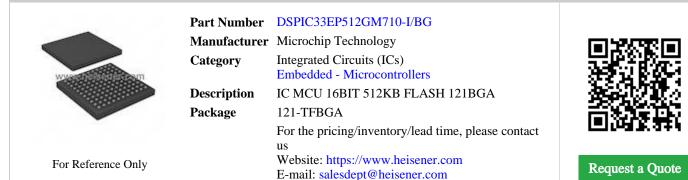


DSPIC33EP512GM710-I/BG

DSPIC33EP512GM710-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.



DSPIC33EP512GM710-I/BG Specifications

ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore Size16-BitConnectivityCAN, I2C, IrDA, LIN, QEI, SPI, UART/USARTPreipheralsBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTProgram Memory Size512KB (170K x 24)Program Memory TypeFLASHEPROM Size-AM Size45K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersAD 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage121-TFBGASeriesdsPICCore ProcessordsPICCore Size16-BitSpeed70 MIPsConcertivityCAN, 12C, IrDA, LIN, QEI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTProgram Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VOata ConvertersA/D 49x10b/12bOctaverters-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Manufacturer Part Number	DSPIC33EP512GM710-I/BG
Embedded - MicrocontrollersPackage121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivityCAN, 12C, 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-Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VOtata ConvertersA/D 49x10b/12bSocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGA	Manufacturer	Microchip Technology
Package121-TFBGASeriesdsPIC? 33EPCore ProcessordsPICCore ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivityCAN, 12C, IrDA, LIN, QEI, SPI, UART/USARTParipheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTParipheralsS5Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersAID 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Augunting Type21-TFBGA	Category	Integrated Circuits (ICs)
NotedsPIC? 33EPCore ProcessordsPIC? 33EPCore Size16-BitCore Size70 MIPsConnectivityCAN, 12C, IrDA, LIN, QEI, SPI, UART/USARTConnectivityBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTPeripherals85Program Memory Size512KB (170K x 24)Program Memory TypeFLASHEEPROM Size-AM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDocallot TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGA		Embedded - Microcontrollers
Core ProcessordsPICCore Size16-BitSpeed70 MIPsConnectivityCAN, 12C, 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 VDerating Temperature40°C ~ 85°C (TA)Operating Temperature-Package / Case121-FFBGA	Package	121-TFBGA
Core Size16-BitSpeed70 MIPsConnectivityCAN, 12C, 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 VDerating Temperature-40°C ~ 85°C (TA)Operating Temperature-Package / Case121-TFBGA	Series	dsPIC? 33EP
Speed70 MIPsConnectivityCAN, I2C, 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-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDerating Temperature-40°C ~ 85°C (TA)Operating Temperature-2ackage / CasePackage / Case121-TFBGA	Core Processor	dsPIC
ConnectivityCAN, I2C, IrDA, LIN, QEI, SPI, UART/USARTConnectivityBrown-out Detect/Reset, DMA, I2S, Motor Control PWM, POR, PWM, WDTPeripheralsBrown-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)Package / Case121-TFBGA	Core Size	16-Bit
PeripheralsBrown-out Detect/Reset, DMA, 12S, Motor Control PWM, POR, PWM, WDTNumber 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/12bDyerating Temperature-40°C ~ 85°C (TA)Package / Case121-TFBGA	Speed	70 MIPs
Number of I/O 85 Program Memory Size 512KB (170K x 24) Program Memory Type FLASH Program Memory Type FLASH SEPROM Size - RAM Size 48K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V Data Converters A/D 49x10b/12b Dscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Package / Case 121-TFBGA	Connectivity	CAN, 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/12bDscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	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/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Number of I/O	85
BeepRoM Size-RAM Size48K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Program Memory Size	512KB (170K x 24)
RAM Size48K x 8Voltage - Supply (Vcc/Vd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 49x10b/12bDscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	EEPROM Size	-
Data ConvertersA/D 49x10b/12bDocillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	RAM Size	48K x 8
Dscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Voltage - Supply (Vcc/Vdd)	3 V ~ 3.6 V
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case121-TFBGA	Data Converters	A/D 49x10b/12b
Mounting Type - Package / Case 121-TFBGA	Oscillator Type	Internal
Package / Case 121-TFBGA	Operating Temperature	-40°C ~ 85°C (TA)
-	Mounting Type	_
Supplier Device Package 121-TFBGA (10x10)	Package / Case	121-TFBGA
	Supplier Device Package	121-TFBGA (10x10)
Report errors?		Report errors?

DSPIC33EP512GM710-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.

DSPIC33EP512GM710-I/BG Payment Methods



If you have any question about DSPIC33EP512GM710-I/BG, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com