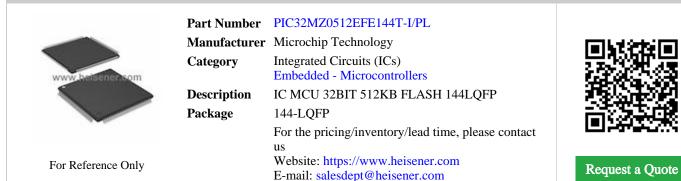


# PIC32MZ0512EFE144T-I/PL

### PIC32MZ0512EFE144T-I/PL 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.



## PIC32MZ0512EFE144T-I/PL Specifications

ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage144-LQFPSeriesPIC? 32MZCore ProcessorMIPS32? M-ClassCore Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPreipheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersAID 48x12bOperating Temperature-Apottage Temperatures-Apottage Temperatures-<		-	
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage144-LQFPSeriesPIC? 32MZCore ProcessorMIPS32? M-ClassCore Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, 12C, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFP (20x20)	Manufacturer Part Number	PIC32MZ0512EFE144T-I/PL	
Indext and the second	Manufacturer	Microchip Technology	
Package144-LQFPSeriesPIC? 32MZCore ProcessorMIPS32? M-ClassCore Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)PEROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersAID 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type144-LQFPSupplier Device Package144-LQFP (20x20)	Category	Integrated Circuits (ICs)	
SeriesPIC? 32MZCore ProcessorMIPS32? M-ClassCore Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type144-LQFP (20x20)		Embedded - Microcontrollers	
Core ProcessorMIPS32? M-ClassCore Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-Prokage / Case144-LQFPSupplier Device Package144-LQFP	Package	144-LQFP	
Core Size32-BitSpeed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFP (20x20)	Series	PIC? 32MZ	
Speed200MHzConnectivityEBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-Package / Case144-LQFP (20x20)	Core Processor	MIPS32? M-Class	
Connectivity EBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTG   Peripherals Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT   Number of I/O 120   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 128K x 8   Voltage - Supply (Vcc/Vdd) 2.1 V ~ 3.6 V   Data Converters A/D 48x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case 144-LQFP (20x20)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type144-LQFPSupplier Device Package144-LQFP (20x20)	Speed	200MHz	
Number of I/O120Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFP (20x20)	Connectivity	EBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTG	
Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFP (20x20)	Peripherals	Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Number of I/O	120	
EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Program Memory Size	512KB (512K x 8)	
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	EEPROM Size	-	
Data ConvertersA/D 48x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	RAM Size	128K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Voltage - Supply (Vcc/Vdd)	2.1 V ~ 3.6 V	
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Data Converters	A/D 48x12b	
Mounting Type-Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Oscillator Type	Internal	
Package / Case144-LQFPSupplier Device Package144-LQFP (20x20)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package144-LQFP (20x20)	Mounting Type	-	
	Package / Case	144-LQFP	
Report errors?	Supplier Device Package	144-LQFP (20x20)	
			Report errors?

### PIC32MZ0512EFE144T-I/PL 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.

#### PIC32MZ0512EFE144T-I/PL Payment Methods



If you have any question about PIC32MZ0512EFE144T-I/PL, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com