

# PIC32MZ2048EFH100-E/PT

### PIC32MZ2048EFH100-E/PT 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.



## PIC32MZ2048EFH100-E/PT Specifications

Manufacturer Microchip Technology   Microchip Technology Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 100-TQFP   Series Automotive, AEC-Q100, PIC® 32MZ   Core Processor MIPS32@ M-Class   Core Size 32-Bit   Speed 180MHz   Connectivity CANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTG   Preipherals Brown-out Detect/Reset, DMA, PS, POR, PWM, WDT   Number of I/O 78   Program Memory Size 2MB (2M x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 512K x 8   Voltage - Supply (Vcc/Vdd) 2.1 V ~ 3.6 V   Data Converters AD 40x12b   Operating Temperature -40°C ~ 125°C   Mounting Type -   Package / Case 100-TQFP   Supplier Device Package 100-TQFP		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-TQFPSeriesAutomotive, AEC-Q100, PIC® 32MZCore ProcessorMIPS32® M-ClassCore Size32-BitSpeed180MHzConnectivityCANbus, EBL/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFPSupplier Device Package100-TQFP (12x12)	Manufacturer Part Number	PIC32MZ2048EFH100-E/PT
Embedded - MicrocontrollersPackage100-TQFPSeriesAutomotive, AEC-Q100, PIC® 32MZCore ProcessorMIPS32@ M-ClassCore Size32-BitSpeed180MHzConcetivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-AM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature440°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Manufacturer	Microchip Technology
PackageI00-TQFPSeriesAutomotive, AEC-Q100, PIC® 32MZCore ProcessorMIPS32® M-ClassCore Size32-BitSpeed180MHzConnectivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature40°C ~ 125°CMounting Type50-TQFPPackage / Case100-TQFP (12x12)	Category	Integrated Circuits (ICs)
SeriesAutomotive, AEC-Q100, PIC® 32MZCore ProcessorMIPS32® M-ClassCore Size32-BitSpeed180MHzConnectivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)		Embedded - Microcontrollers
Core ProcessorMIPS32@ M-ClassCore Size32-BitSpeed180MHzConnectivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Package	100-TQFP
Core Size32-BitSpeed180MHzConnectivityCANbus, EBJ/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Series	Automotive, AEC-Q100, PIC® 32MZ
Speed180MHzConnectivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, I²S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type.Package / Case100-TQFP (12x12)	Core Processor	MIPS32® M-Class
ConnectivityCANbus, EBI/EMI, Ethernet, PC, PMP, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, PS, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Core Size	32-Bit
PeripheralsBrown-out Detect/Reset, DMA, I²S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Speed	180MHz
Number of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Connectivity	CANbus, EBI/EMI, Ethernet, I2C, PMP, SPI, SQI, UART/USART, USB OTG
Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFP (12x12)	Peripherals	Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT
Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Number of I/O	78
EEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Program Memory Size	2MB (2M x 8)
RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.1 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	EEPROM Size	-
Data ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	RAM Size	512K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Voltage - Supply (Vcc/Vdd)	2.1 V ~ 3.6 V
Operating Temperature-40°C ~ 125°CMounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Data Converters	A/D 40x12b
Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Oscillator Type	Internal
Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)	Operating Temperature	-40°C ~ 125°C
Supplier Device Package100-TQFP (12x12)	Mounting Type	-
	Package / Case	100-TQFP
Report errors	Supplier Device Package	100-TQFP (12x12)
		Report errors?

### PIC32MZ2048EFH100-E/PT 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.

### PIC32MZ2048EFH100-E/PT Payment Methods



If you have any question about PIC32MZ2048EFH100-E/PT, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com