

# PIC32MZ2048ECM100-I/PT

### PIC32MZ2048ECM100-I/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.



## PIC32MZ2048ECM100-I/PT Specifications

| Manufacturer Part Number PIC32MZ2048ECM100-I/PT   Manufacturer Microchip Technology   Ategory Integrated Circuits (ICS)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 100-TQFP   Scries PIC9 32MZ   Core Processor MIPS32? microAptiv?   Core Size 32-Bit   Speed 00MHz   Connectivity CAN, EBI/EMI, Ethernet, 12C, SPI, SQI, UART/USART, USB OTG   Number of I/O 78   Program Memory Size MIB (2M x 8)   Program Memory Type FLASH   Stack Size S12 X x 3.6 V   Voltage - Supply (Vcc/Vdd) 3.2 V - 3.6 V   Order Size 4.00-Apt - Size Circuits   Order Size 1.01-Apt - Size Circuits   Mumour of J/O S1X x 8   Program Memory Type FLASH   Pictory S1X x 8   Size S1X x 3.6 V   Didage - Supply (Vcc/Vdd) S1X v - 3.6 V   Ording Type -40°C AsS°C (TA)   Ording Type -40°C AsS°C (TA)   Mounting Type <th></th> <th></th> <th></th> |                            |  |                |
|--|----------------------------|--|----------------|
| CategoryIntegrated Circuits (ICs)Embedded - MicroontrollersPackage100-TQFPSeriesPIC? 32MZCore ProcessorMIPS32? microAptiv?Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, 12C, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-Nutsize512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)   | Manufacturer Part Number   | PIC32MZ2048ECM100-I/PT                                     |                |
| Embedded - MicrocontrollersPackage100-TQFPSeriesPIC? 32MZCore ProcessorMIPS32? microAptiv?Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, 12C, SPI, SQI, UART/USART, USB OTGPeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)EEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type100-TQFPSupplier Device Package100-TQFP (12x12)  | Manufacturer               | Microchip Technology                                       |                |
| PackageInformationPackageIOC-TQFPSeriesPIC? 32MZCore ProcessorMIPS32? microAptiv?Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, SPI, SQI, UART/USART, USB OTGPreipheralsBrown-out Detect/Reset, DMA, I2S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)FEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)   | Category                   | Integrated Circuits (ICs)                                  |                |
| SeriesPIC? 32MZCore ProcessorMIPS32? microAptiv?Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, 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)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)   |                            | Embedded - Microcontrollers                                |                |
| Core ProcessorMIPS32? microAptiv?Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, 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-Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)  | Package                    | 100-TQFP   |                |
| Core Size32-BitSpeed200MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, 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)2.3 V ~ 3.6 VData ConvertersAD4 0x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type100-TQFP (12x12)  | Series                     | PIC? 32MZ  |                |
| Speed200MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, 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)AD 40x12bData ConvertersAD 40x12bOperating Temperature-40°C ~85°C (TA)Mounting Type0.01 QEF (12x12)   | Core Processor             | MIPS32? microAptiv?  |                |
| Connectivity CAN, EBI/EMI, Ethernet, I2C, SPI, SQI, UART/USART, USB OTG   Peripherals Brown-out Detect/Reset, DMA, I2S, 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) 2.3 V ~ 3.6 V   Data Converters A/D 40x12b   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case 100-TQFP (12x12)  | Core Size                  | 32-Bit   |                |
| PeripheralsBrown-out Detect/Reset, DMA, 12S, POR, PWM, WDTNumber of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator Type-Porating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)  | Speed                      | 200MHz   |                |
| Number of I/O78Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFP (12x12)  | Connectivity               | CAN, EBI/EMI, Ethernet, I2C, SPI, SQI, UART/USART, USB OTG |                |
| Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-Mounting 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)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)   | Number of I/O              | 78   |                |
| EEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)   | Program Memory Size        | 2MB (2M x 8)   |                |
| RAM Size512K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type.Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)   | Program Memory Type        | FLASH  |                |
| Voltage - Supply (Vcc/Vdd)2.3 V ~ 3.6 VData ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)   | EEPROM Size                | -  |                |
| Data ConvertersA/D 40x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)  | RAM Size                   | 512K x 8   |                |
| Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case100-TQFPSupplier Device Package100-TQFP (12x12)   | Voltage - Supply (Vcc/Vdd) | 2.3 V ~ 3.6 V  |                |
| Operating Temperature-40°C ~ 85°C (TA)Mounting 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 ~ 85°C (TA)  |                |
| Supplier Device Package100-TQFP (12x12)  | Mounting Type              | -  |                |
|  | Package / Case             | 100-TQFP   |                |
| Report errors?   | Supplier Device Package    | 100-TQFP (12x12)   |                |
|  |                            |  | Report errors? |

### PIC32MZ2048ECM100-I/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.

#### PIC32MZ2048ECM100-I/PT Payment Methods



If you have any question about PIC32MZ2048ECM100-I/PT, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com