

# DSPIC33FJ128MC510T-I/PT

## DSPIC33FJ128MC510T-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.



## DSPIC33FJ128MC510T-I/PT Specifications

Manufacturer Part NumberDSPIC33FJ128MC510T-I/PTManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-TQFPSeriesdsPIC? 33FCore ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, I2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM SizeSK x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalMounting Type-Package / Case100-TQFP		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-TQFPSeriesdsPIC? 33FCore ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, I2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalMounting Type-	Manufacturer Part Number	DSPIC33FJ128MC510T-I/PT
IndextedIndexted - MicrocontrollersPackage100-TQFPSeriesdsPIC? 33FCore ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, 12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalMounting Type-Mounting Type-	Manufacturer	Microchip Technology
Package100-TQFPSeriesdsPIC? 33FCore ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, I2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHKAM Size3V ~ 3.6 VVoltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersA/D 24x10b/12bOperating Temperature40°C ~ 85°C (TA)Mounting Type-	Category	Integrated Circuits (ICs)
SeriesdsPIC? 33FCore ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, 12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size.Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersArD 24x10b/12bOscillator Type.Mounting Type.		Embedded - Microcontrollers
Core ProcessordsPICCore Size16-BitSpeed40 MIPsConnectivityCAN, 12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalMounting Type-	Package	100-TQFP
Core Size16-BitSpeed40 MIPsConnectivityCAN, I2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersAD 24x10b/12bOscillator TypeInternalMounting Type-	Series	dsPIC? 33F
Speed40 MIPsConnectivityCAN, I2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersAnd 24x10b/12bOscillator TypeInternalMounting Type-	Core Processor	dsPIC
Image: ConnectivityCAN, 12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Core Size	16-Bit
PeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Speed	40 MIPs
Number of I/O85Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-0°C ~ 85°C (TA)Mounting Type-	Connectivity	CAN, I2C, IrDA, LIN, SPI, UART/USART
Program Memory Size128KB (128K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, QEI, POR, PWM, WDT
Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Number of I/O	85
EEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Program Memory Size	128KB (128K x 8)
RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	EEPROM Size	-
Data ConvertersA/D 24x10b/12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	RAM Size	8K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Voltage - Supply (Vcc/Vdd)	3 V ~ 3.6 V
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-	Data Converters	A/D 24x10b/12b
Mounting Type -	Oscillator Type	Internal
	Operating Temperature	-40°C ~ 85°C (TA)
Package / Case 100-TQFP	Mounting Type	-
	Package / Case	100-TQFP
Supplier Device Package100-TQFP (12x12)	Supplier Device Package	100-TQFP (12x12)
Report err		Report errors?

## DSPIC33FJ128MC510T-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.

### DSPIC33FJ128MC510T-I/PT Payment Methods



If you have any question about DSPIC33FJ128MC510T-I/PT, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com