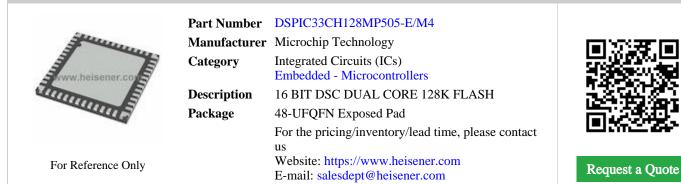


## DSPIC33CH128MP505-E/M4

#### DSPIC33CH128MP505-E/M4 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.



#### DSPIC33CH128MP505-E/M4 Specifications

Manufacturer Microchip Technology   Manufacturer Microchip Technology   Tetegrated Circuits (ICs) Embedded - Microcontrollers   Package 48-UFQFN Exposed Pad   Series dsPIC <sup>M</sup> 33CH   Core Processor dsPIC   Core Size 16-Bit Dual-Core   Speed 180MHz, 200MHz   Connectivity CANbus, PC, IrDA, LINbus, SPI, UART/USART   Porpara Memory Size 152KB (152K x 8)   Program Memory Size 152KB (152K x 8)   Program Memory Type FLASH/PRAM   EEPROM Size -   RAM Size 20K x 8   Voltage - Supply (Vcc/Vdd) 3 V ~ 3.6 V   Data Converters AD 31x12b, D/A 4x12b   Oscillator Type Internal   Operating Temperature -   Av0°C ~ 125°C (TA) -   Package / Case 48-UFQFN Exposed Pad   Supplier Device Package 84-UFQFN Exposed Pad		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage48-UFQFN Exposed PadSeriesdsPIC************************************	Manufacturer Part Number	DSPIC33CH128MP505-E/M4
Indext and the set of the se	Manufacturer	Microchip Technology
PackageHardren Manual MathematicaPackage48-UFQFN Exposed PadSeriesdsPIC <sup>™</sup> 33CHCore ProcessordsPICCore Size16-bit Dual-CoreSpeed180MHz, 200MHzConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-AMA Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UGFN Exposed PadSupplier Device Package48-UQFN (Ko6)	Category	Integrated Circuits (ICs)
SeriesdsPIC <sup>M</sup> 33CHCore ProcessordsPICCore Size16-Bit Dual-CoreSpeed180MHz, 200MHzConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature40°C ~ 125°C (TA)Mounting Type-Package / Case48-UQFN (sc6)		Embedded - Microcontrollers
Core ProcessordsPICCore Size16-Bit Dual-CoreSpeed180MHz, 200MHzConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator Type-uernalOperating Temperature-40°C ~ 125°C (TA)Mounting Type48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Package	48-UFQFN Exposed Pad
Core Size16-Bit Dual-CoreSpeed180MHz, 200MHzConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator Type-40°C ~ 125°C (TA)Mounting Type-Package / Case84UFQFN Exposed PadSupplier Device Package84-UQFN (6x6)	Series	dsPIC <sup>TM</sup> 33CH
Speed180MHz,200MHzConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator Type-Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (sc6)	Core Processor	dsPIC
ConnectivityCANbus, PC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Core Size	16-Bit Dual-Core
PeripheralsBrown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDTNumber of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Speed	180MHz, 200MHz
Number of I/O39Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Connectivity	CANbus, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART
Program Memory Size152KB (152K x 8)Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UQEFN Exposed PadSupplier Device Package48-UQEFN (6x6)	Peripherals	Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT
Program Memory TypeFLASH/PRAMEEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Number of I/O	39
EEPROM Size-RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Program Memory Size	152KB (152K x 8)
RAM Size20K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 3.6 VData ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Program Memory Type	FLASH/PRAM
Note of the second se	EEPROM Size	-
Data ConvertersA/D 31x12b, D/A 4x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	RAM Size	20K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Voltage - Supply (Vcc/Vdd)	3 V ~ 3.6 V
Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Data Converters	A/D 31x12b, D/A 4x12b
Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Oscillator Type	Internal
Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package 48-UQFN (6x6)	Mounting Type	-
	Package / Case	48-UFQFN Exposed Pad
Report errors <sup>2</sup>	Supplier Device Package	48-UQFN (6x6)
		Report errors?

#### DSPIC33CH128MP505-E/M4 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 BUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### DSPIC33CH128MP505-E/M4 Payment Methods



If you have any question about DSPIC33CH128MP505-E/M4, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com