

# DSPIC33CK64MP102-E/M6

### DSPIC33CK64MP102-E/M6 Information



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# DSPIC33CK64MP102-E/M6 Specifications

Manufacturer Part Number DSPIC33CK64MP102-E/M6   Manufacturer Microchip Technology   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 28-UFQFN Exposed Pad   Scries Automotive, AEC-Q100, dsPIC <sup>M</sup> 33CK   Core Processor 6-Bit   Speed 100MHz   Concritivity PC, IrDA, LINbus, SPI, UART/USART   Concritivity 21   Number of I/O 21   Program Memory Size 64KB (64K x 8)   Program Memory Type FLASH   Voltage - Supply (Vcc/Vdd) 3V ~ 3.6V   Oscritory Type FLASI 220°C (TA)   Oldage - Supply (Vcc/Vdd) 3V ~ 3.6V   Ordizer Size Care 400°C ~ 125°C (TA)   Mounting Type Surface Mount   Program Generature 40°C ~ 125°C (TA)   Mounting Type Surface Mount		-	
CategoryIntegrated Circuits (Cs)Embedded - MicrocontrollersPackage28-UFQFN Exposed PadSeriesAutomotive, AEC-Q100, dsPICTM 33CKCore ProcessordsPICCore Size16-BitSpeed100MHzConnectivityFC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Manufacturer Part Number	DSPIC33CK64MP102-E/M6	
IndextedEmbedded - MicrocontrollersPackage28-UFQFN Exposed PadSeriesAutomotive, AEC-Q100, dsPIC <sup>™</sup> 33CKCore ProcessordsPICCore Size16-BitSpeed100MHzConnectivityPC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Manufacturer	Microchip Technology	
Package28-UFQFN Exposed PadSeriesAutomotive, AEC-Q100, dsPICTM 33CKCore ProcessordsPICCore Size16-BitSpeed100MHzConectivityFC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)PEROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 312bOscillator TypeInternalOperating Temperature4.0°C ~ 125°C (TA)Mounting TypeSu FugeNE PadaPackage / Case38-UGFN Exposed PadaSupplier Device Package88-UQFN Exposed Pada	Category	Integrated Circuits (ICs)	
SeriesAutomotive, AEC-Q100, dsPIC™ 33CKCore ProcessordsPICCore Size16-BitSpeed100MHzConnectivityPC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)		Embedded - Microcontrollers	
Core ProcessordsPICCore Size16-BitSpeed100MHzConnectivityPC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersAD 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type3E-UFQFN Exposed PadSupplier Device Package28-UFQFN (4x4)	Package	28-UFQFN Exposed Pad	
Core Size16-BitSpeed100MHzConnectivityPC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature4.0°C ~ 15°C (TA)Mounting TypeSu-GAUPackage / Case8.2UFQFN Exposed PadSupplier Device Package8-UQFN (4x4)	Series	Automotive, AEC-Q100, dsPIC <sup>™</sup> 33CK	
Speed100MHzConnectivityFC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator Type4v°c ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8k-UGPN Eage PadSuppler Device Package2e-UQFN (44)	Core Processor	dsPIC	
ConnectivityPC, IrDA, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSu face MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Core Size	16-Bit	
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDTNumber of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Speed	100MHz	
Number of I/O21Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Connectivity	I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART	
Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, QEI, Smart Card, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Number of I/O	21	
EEPROM Size-RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Program Memory Size	64KB (64K x 8)	
RAM Size8K x 8Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)3V ~ 3.6VData ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	EEPROM Size	-	
Data ConvertersA/D 12x12b; D/A 3x12bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	RAM Size	8K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	
Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Data Converters	A/D 12x12b; D/A 3x12b	
Mounting TypeSurface MountPackage / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Oscillator Type	Internal	
Package / Case28-UFQFN Exposed PadSupplier Device Package28-UQFN (4x4)	Operating Temperature	-40°C ~ 125°C (TA)	
Supplier Device Package 28-UQFN (4x4)	Mounting Type	Surface Mount	
	Package / Case	28-UFQFN Exposed Pad	
Report errors?	Supplier Device Package	28-UQFN (4x4)	
			Report errors?

## DSPIC33CK64MP102-E/M6 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.

#### DSPIC33CK64MP102-E/M6 Payment Methods



If you have any question about DSPIC33CK64MP102-E/M6, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com