

# MK24FN1M0VDC12R

## MK24FN1M0VDC12R Information

NUMBATINESHTINE SATI	Part Number Manufacturer Category Description Package	MK24FN1M0VDC12R NXP Integrated Circuits (ICs) Embedded - Microcontrollers IC MCU 32BIT 1MB FLASH 121MAPBGA 121-XFBGA For the pricing/inventory/lead time, please contact us	
For Reference Only		Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request a Quote

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# MK24FN1M0VDC12R Specifications

Manufacturer NXP   Manufacturer NXP   Category Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 121-XFEGA   Series Kinetis K20   Core Processor ARM? Cortex?-M4   Core Size 32-Bit   Speed 120MHz   Connectivity CAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTG   Number of I/O 83   Program Memory Size IMB (1M x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 256K x 8   Voltage - Supply (Vcc/Vdd) 1.71 V ~ 3.6 V   Data Converters A/D 37x16b, D/A 2x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 121-XFBGA   Supplier Device Package 121-MAPBGA (8x8)			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage121-XFBGASeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed120MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPreipheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (IM x 8)EEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersAD 37x16b, D/A 2x12bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGA (8x8)	Manufacturer Part Number	MK24FN1M0VDC12R	
Indext and the second	Manufacturer	NXP	
Package121-XFBGASeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed120MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersAUD 37x16b, D/A 2x12bOscillator Type-Program Gremperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Category	Integrated Circuits (ICs)	
SeriesKinetis K20SeriesARM? Cortex?-M4Core Processor32-BitSpeed120MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1,71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)		Embedded - Microcontrollers	
Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed120MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGA (8x8)	Package	121-XFBGA	
Core Size32-BitSpeed120MHzConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltag - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Series	Kinetis K20	
Speed120MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGA (8x8)	Core Processor	ARM? Cortex?-M4	
PrintConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, I2S, LVD, POR, PWM, WDTNumber of I/O83Program Memory SizeIMB (IM x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGA (8x8)	Core Size	32-Bit	
PeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O83Program Memory Size1MB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Speed	120MHz	
Number of I/O83Program Memory Size1MB (1M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Connectivity	CAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTG	
Program Memory SizeIMB (IM x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Peripherals	DMA, I2S, LVD, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Number of I/O	83	
EEPROM Size-RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Program Memory Size	1MB (1M x 8)	
RAM Size256K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	EEPROM Size	-	
Data ConvertersA/D 37x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	RAM Size	256K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Voltage - Supply (Vcc/Vdd)	1.71 V ~ 3.6 V	
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Data Converters	A/D 37x16b, D/A 2x12b	
Mounting Type-Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Oscillator Type	Internal	
Package / Case121-XFBGASupplier Device Package121-MAPBGA (8x8)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package121-MAPBGA (8x8)	Mounting Type	-	
	Package / Case	121-XFBGA	
Report errors <sup>4</sup>	Supplier Device Package	121-MAPBGA (8x8)	
			Report errors?

## MK24FN1M0VDC12R 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**

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If you have any question about MK24FN1M0VDC12R, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com