

MK20DN512VMD10

MK20DN512VMD10 Information

www.baineteran	Part Number Manufacturer Category Description Package	Integrated Circuits (ICs) Embedded - Microcontrollers IC MCU 32BIT 512KB FLASH 144BGA 144-LBGA For the pricing/inventory/lead time, please contact	
For Reference Only		us Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request a Quote

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MK20DN512VMD10 Specifications

Manufacturer NXP Manufacturer NXP Category Integrated Circuits (ICs) Embedded - Microcontrollers 144-LBGA Package 144-LBGA Series Kinetis K20 Core Processor ARM? Cortex?-M4 Core Size 32-Bit Speed 100MHz Connectivity CAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTG Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 128K x 8 Voltage - Supply (Vcc/Vdd) 1.71 V ~ 3.6 V Data Converters A/D 42x16b, D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 144-LBGA Supplier Device Package 144-MAPBGA (13x13)				
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage144-LBGASeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeHermalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Manufacturer Part Number	MK20DN512VMD10		
Embedded - MicrocontrollersPackage144-LBGASeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed100MHzConcetivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Package / Case144-MAPBGA (13x13)	Manufacturer	NXP		
Package144-LBGASeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed100MHzConnetivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vd)1.71 V ~ 3.6 VData ConvertersAD42x16b, D/A 2x12bOscillator Type-Program Series-Program Series-Syster Series-Operating Temperature-Advace Alge / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Category	Integrated Circuits (ICs)		
SeriesKinetis K20Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, I2S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)		Embedded - Microcontrollers		
Core ProcessorARM? Cortex?-M4Core Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, I2S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltag - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Package	144-LBGA		
Core Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, I2S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Series	Kinetis K20		
Speed100MHzConnectivityCAN, EBI/EMI, 12C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, 12S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Core Processor	ARM? Cortex?-M4		
ProfectionFormalConnectivityCAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTGPeripheralsDMA, I2S, LVD, POR, PWM, WDTNumber of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Core Size	32-Bit		
Peripherals DMA, 12S, LVD, POR, PWM, WDT Number of I/O 100 Program Memory Size 512KB (512K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 128K x 8 Voltage - Supply (Vcc/Vdd) 1.71 V ~ 3.6 V Data Converters A/D 42x16b, D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Package / Case 144-LBGA Supplier Device Package 144-MAPBGA (13x13)	Speed	100MHz		
Number of I/O100Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Connectivity	CAN, EBI/EMI, I2C, IrDA, SD, SPI, UART/USART, USB, USB OTG		
Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Peripherals	DMA, I2S, LVD, POR, PWM, WDT		
Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bDoscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Number of I/O	100		
EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Program Memory Size	512KB (512K x 8)		
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Program Memory Type	FLASH		
Voltage - Supply (Vcc/Vdd)1.71 V ~ 3.6 VData ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	EEPROM Size	-		
Data ConvertersA/D 42x16b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	RAM Size	128K x 8		
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Voltage - Supply (Vcc/Vdd)	1.71 V ~ 3.6 V		
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Data Converters	A/D 42x16b, D/A 2x12b		
Mounting Type-Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Oscillator Type	Internal		
Package / Case144-LBGASupplier Device Package144-MAPBGA (13x13)	Operating Temperature	-40°C ~ 105°C (TA)		
Supplier Device Package144-MAPBGA (13x13)	Mounting Type	-		
	Package / Case	144-LBGA		
Report errors?	Supplier Device Package	144-MAPBGA (13x13)		
			Report errors?	

MK20DN512VMD10 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.

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Service Guarantees

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

MK20DN512VMD10 Payment Methods





If you have any question about MK20DN512VMD10, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com