

MK53DN512CLQ10



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See Product Specifications for product details.
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Part Number: [MK53DN512CLQ10](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:  [K53_LQ/MD10 Ref Manual](#)
 [K50 Family Fact Sheet](#)
 [K53_LQ/MD10 Datasheet](#)
 [K50 Family Brief](#)
 [5N22D Mask Set Errata](#)

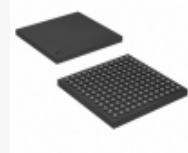
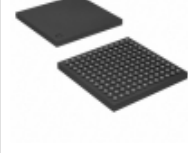
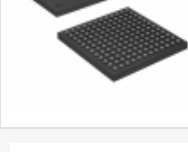
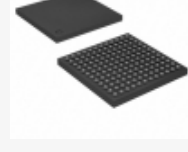
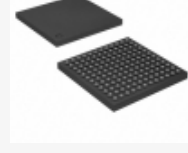
RoHs Status: Lead free / RoHS Compliant

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PRODUCT PARAMETER			
Part Number	MK53DN512CLQ10	Manufacturer	NXP Semiconductors / Freescale
Description	IC MCU 32BIT 512KB FLASH 144LQFP	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	8812 pcs	Data sheet	K53_LQ/MD10 Ref Manual K50 Family Fact Sheet K53_LQ/MD10 Datasheet K50 Family Brief 5N22D Mask Set Errata
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	1.71 V ~ 3.6 V
Supplier Device Package	144-LQFP (20x20)	Speed	100MHz
Series	Kinetis K50	RAM Size	128K x 8
Program Memory Type	FLASH	Program Memory Size	512KB (512K x 8)
Peripherals	DMA, I ² S, LCD, LVD, POR, PWM, WDT	Packaging	Tray
Package / Case	144-LQFP	Other Names	935319956557
Oscillator Type	Internal	Operating Temperature	-40°C ~ 85°C (TA)
Number of I/O	94	Moisture Sensitivity Level (MSL)	3 (168 Hours)
Manufacturer Standard Lead Time	13 Weeks	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
EEPROM Size	-	Detailed Description	ARM® Cortex®-M4 Kinetis K50 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 144-LQFP (20x20)
Data Converters	A/D 41x16b, D/A 2x12b	Core Size	32-Bit
Core Processor	ARM® Cortex®-M4	Connectivity	EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Base Part Number	MK53DN512		
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	Part#: MK5622FE-R52 Description: RES 56.2K OHM 1/4W 1% AXIAL	Manufacturers: Ohmite	RFQ
	Part#: MK53DN512ZCMD10 Description: IC MCU 32BIT 512KB FLASH 144BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK53DX256CMD10 Description: IC MCU 32BIT 256KB FLASH 144BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK51R1FE-R52 Description: RES 51.1 OHM 1/4W 1% AXIAL	Manufacturers: Ohmite	RFQ
	Part#: MK51DX256ZCMC10 Description: IC MCU 32BIT 256KB FLASH 121BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK51DX256CMC7 Description: IC MCU 32BIT 256KB FLASH 121BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK52DN512CMD10 Description: IC MCU 32BIT 512KB FLASH 144BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK5811ASLF Description: IC CLK GENERATOR LOW EMI 8-SOIC	Manufacturers: IDT (Integrated Device Technology)	RFQ
	Part#: MK53DN512ZCLQ10 Description: IC MCU 32BIT 512KB FLASH 144LQFP	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK53DN512CMD10 Description: IC MCU 32BIT 512KB FLASH 144BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK51DX256CML7 Description: IC MCU 32BIT 256KB FLASH 104BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
	Part#: MK52DN512ZCMD10 Description: IC MCU 32BIT 512KB FLASH 144BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
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	Part#: MK51DX256ZCMB10 Description: IC MCU 32BIT 256KB FLASH 81BGA	Manufacturers: NXP Semiconductors / Freescale	RFQ
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