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See specifications for product details.



## MCIMX512CJM6C

Manufacturer Part Number	<b>MCIMX512CJM6C</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MCIMX512CJM6C
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX51 600MHZ 529BGA
Package	529-LFBGA
Data sheet	<b><a href="#">i.MX512/3/5 Fact Sheet.pdf</a></b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MCIMX512CJM6C - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX512CJM6C datasheet/specifications on AllelcoElec.com.  
Request a quote for MCIMX512CJM6C, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MCIMX512CJM6C Tech Specifications

MCIMX512CJM6C - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 95°C (TC)
Voltage - I/O	1.2V, 1.875V, 2.775V, 3.0V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 (3), USB 2.0 + PHY (1)	Mounting Type	Surface Mount
Supplier Device Package	529-BGA (19x19)	Graphics Acceleration	No
Speed	600MHz	Ethernet	10/100Mbps (1)
Series	i.MX51	Display & Interface Controllers	Keypad, LCD
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	Core Processor	ARM® Cortex®-A8
SATA	-	Co-Processors/DSP	Multimedia; NEON™ SIMD
RAM Controllers	LPDDR, DDR2	Base Product Number	MCIMX512
Package / Case	529-LFBGA	Additional Interfaces	1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MCIMX512CJM6C

Product Attribute				
Part Number	MCIMX512CJM6C	MCIMX515CJM6C	MCIMX515CJM6C	MCIMX507CVM1B
Manufacturer	NXP USA Inc.	NXP USA Inc.	Freeseale Semiconductor	Freeseale Semiconductor
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	Keypad, LCD	LCD
Base Product Number	MCIMX512	MCIMX515	MCIMX515	MCIMX507
Package / Case	529-LFBGA	529-LFBGA	529-LFBGA	400-LFBGA
Voltage - I/O	1.2V, 1.875V, 2.775V, 3.0V	1.2V, 1.875V, 2.775V, 3.0V	1.2V, 1.875V, 2.775V, 3.0V	1.2V, 1.875V, 2.775V, 3.0V
Graphics Acceleration	No	Yes	Yes	Yes
Additional Interfaces	1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART	1-Wire, AC'97, I²C, I²S, MMC/SD, SPI, SSI, UART	1-Wire, AC97, I²C, I²S, MMC/SD, SPI, SSI, UART	1-Wire, AC97, I²C, I²S, MMC/SD, SPI, SSI, UART
Series	i.MX51	i.MX51	i.MX51	i.MX50
Ethernet	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)	10/100Mbps (1)
USB	USB 2.0 (3), USB 2.0 + PHY (1)	USB 2.0 (3), USB 2.0 + PHY (1)	USB 2.0 (3), USB 2.0 + PHY (1)	USB 2.0 + PHY (2)
RAM Controllers	LPDDR, DDR2	LPDDR, DDR2	LPDDR, DDR2	LPDDR, LPDDR2, DDR2
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC	Boot Security, Cryptography, Secure JTAG
SATA	-	-	-	-
Package	Tray	Tray	Bulk	Bulk
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	529-BGA (19x19)	529-BGA (19x19)	529-BGA (19x19)	400-LFBGA (17x17)
Core Processor	ARM® Cortex®-A8	ARM® Cortex®-A8	ARM® Cortex®-A8	ARM® Cortex®-A8
Operating Temperature	-40°C ~ 95°C (TC)	-40°C ~ 95°C (TC)	-40°C ~ 95°C (TC)	0°C ~ 70°C (TA)
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Speed	600MHz	600MHz	600MHz	800MHz

### MCIMX512CJM6C Datasheet PDF

Download MCIMX512CJM6C pdf datasheets and NXP USA Inc. documentation for MCIMX512CJM6C - NXP USA Inc..

#### Datasheets

i.MX512/3/5 Fact Sheet.pdf

#### PCN Packaging

All Dev Label Update 15/Dec/2020.pdf

Mult Dev Pkg Seal 15/Dec/2020.pdf

### Environmental Information

NXP USA Inc REACH.pdf

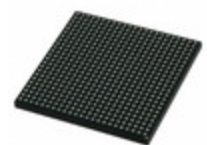
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### PCN Assembly/Origin

2.73KHz.pdf

### Customers Also Interested in

#### Recommended Products



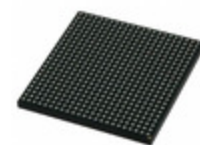
**MCIMX515CJM6C**  
NXP USA Inc.  
IC MPU I.MX51 600MHZ 529BGA



**MCIMX515CJM6C**  
Freescale Semiconductor  
I.MX51 32-BIT MPU, ARM CORTEX-A8



**MCIMX507CVM1B**  
Freescale Semiconductor  
I.MX50 32-BIT MPU, ARM CORTEX-A8



**MCIMX513DJM8C**  
NXP USA Inc.  
IC MPU I.MX51 800MHZ 529BGA



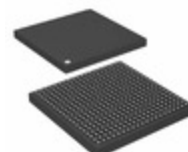
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I.MX50 32-BIT MPU, ARM CORTEX-A8



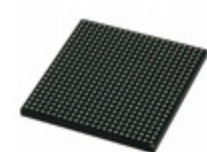
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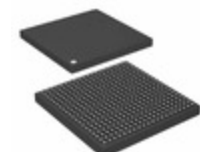
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IC MPU I.MX51 600MHZ 529BGA



**MCIMX508CVM8B**  
NXP USA Inc.  
IC MPU I.MX50 800MHZ 400MAPBGA



**MCIMX512DJM8C**  
NXP USA Inc.  
IC MPU I.MX51 800MHZ 529BGA



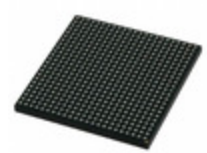
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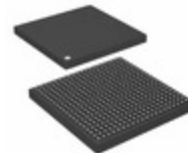
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Freescale Semiconductor  
I.MX51 32-BIT MPU, ARM CORTEX-A8



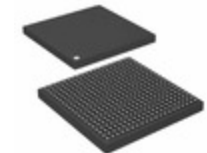
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I.MX50 32-BIT MPU, ARM CORTEX-A8



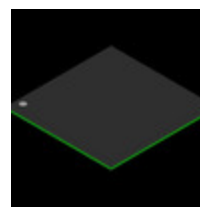
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IC MPU I.MX51 600MHZ 529BGA



**MCIMX503EVM8B**  
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IC MPU I.MX50 800MHZ 400MAPBGA



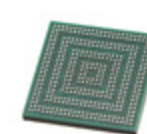
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IC MPU I.MX50 800MHZ 400MAPBGA



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**MCIMX514AJM6CR2**  
Freescale Semiconductor  
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**MCIMX508CVK8B**  
NXP USA Inc.  
IC MPU I.MX50 800MHZ 416MAPBGA

### Shipment

#### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

#### Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

#### Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference

Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference

Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -

- Efficient Supply Management
- Cost-Saving Procurement
- Fast Sourcing & Delivery

Contact us if you have any questions.

- Phone: +00852 9146 4856
- Email: info@allelco.com

### Certifications & Memberships



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