



Image may be representation.
See specifications for product details.



MCIMX6X1AVO08AB

Manufacturer Part Number	MCIMX6X1AVO08AB
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MCIMX6X1AVO08AB
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX6SX 800MHZ 400MAPBGA
Package	400-LFBGA
Data sheet	MCIMX6XxAxx(B,C) Datasheet.pdf i.MX 6 Series Overview.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MCIMX6X1AVO08AB - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6X1AVO08AB datasheet/specifications on AllelcoElec.com.
Request a quote for MCIMX6X1AVO08AB, please send us email: info@allelco.com

Specifications

MCIMX6X1AVO08AB Tech Specifications
MCIMX6X1AVO08AB - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 125°C (TJ)
Voltage - I/O	1.8V, 2.5V, 2.8V, 3.15V	Number of Cores/Bus Width	2 Core, 32-Bit
USB	USB 2.0 + PHY (1), USB 2.0 OTG + PHY (2)	Mounting Type	Surface Mount
Supplier Device Package	400-MAPBGA (17x17)	Graphics Acceleration	No
Speed	200MHz, 800MHz	Ethernet	10/100/1000Mbps (2)
Series	i.MX6SX	Display & Interface Controllers	Keypad, LCD
Security Features	A-HAB, ARM TZ, CAAM, CSU, SNVS, System JTAG, TVDECODE	Core Processor	ARM® Cortex®-A9, ARM® Cortex®-M4
SATA	-	Co-Processors/DSP	Multimedia; NEON™ MPE
RAM Controllers	LPDDR2, LVDDR3, DDR3	Base Product Number	MCIMX6
Package / Case	400-LFBGA	Additional Interfaces	AC'97, CAN, I²C, I²S, MMC/SD/SDIO, SAI, SPDIF, SPI, SSI, UART
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MCIMX6X1AVO08AB

Product Attribute				
Part Number	MCIMX6X1AVO08AB	MCIMX6X3EVK10ABR	MCIMX6U7CVM08AD	MCIMX6V7DVN10AB
Manufacturer	NXP USA Inc.	Freescale Semiconductor	NXP USA Inc.	NXP USA Inc.
Co-Processors/DSP	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Base Product Number	MCIMX6	-	MCIMX6	MCIMX6
Core Processor	ARM® Cortex®-A9, ARM® Cortex®-M4	ARM® Cortex®-A9, ARM® Cortex®-M4	ARM® Cortex®-A9	ARM® Cortex®-A9
Ethernet	10/100/1000Mbps (2)	10/100/1000Mbps (2)	10/100/1000Mbps (1)	-
Operating Temperature	-40°C ~ 125°C (TJ)	-20°C ~ 105°C (TJ)	-40°C ~ 105°C (TA)	0°C ~ 95°C (TJ)
USB	USB 2.0 + PHY (1), USB 2.0 OTG + PHY (2)	USB 2.0 + PHY (1), USB 2.0 OTG + PHY (2)	USB 2.0 + PHY (4)	USB 2.0 OTG + PHY (2)
Voltage - I/O	1.8V, 2.5V, 2.8V, 3.15V	1.8V, 2.5V, 2.8V, 3.15V	1.8V, 2.5V, 2.8V, 3.3V	1.2V, 1.8V, 2.5V, 3.3V
Security Features	A-HAB, ARM TZ, CAAM, CSU, SNVS, System JTAG, TVDECODE	A-HAB, ARM TZ, CAAM, CSU, SNVS, System JTAG, TVDECODE	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	A-HAB, ARM TZ, CSU, SJC, SNVS
Speed	200MHz, 800MHz	227MHz, 1GHz	800MHz	1GHz
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Supplier Device Package	400-MAPBGA (17x17)	400-MAPBGA (14x14)	624-MAPBGA (21x21)	432-MAPBGA (13x13)
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	1 Core, 32-Bit
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	Keypad, LCD	EPDC, LCD
SATA	-	-	-	-
Package	Tray	Bulk	Tray	Tray
Package / Case	400-LFBGA	400-LFBGA	624-LFBGA	432-TFBGA
Graphics Acceleration	No	Yes	Yes	Yes
RAM Controllers	LPDDR2, LVDDR3, DDR3	DDR3, DDR3L, LPDDR2	LPDDR2, LVDDR3, DDR3	LPDDR2, LPDDR3
Series	i.MX6SX	i.MX6SX	i.MX6DL	i.MX6SLL
Additional Interfaces	AC'97, CAN, I²C, I²S, MMC/SD/SDIO, SAI, SPDIF, SPI, SSI, UART	CANbus, I²C, I²S, MLB, MMC/SD/SDIO, PCIe, SAI, SPDIF, SPI, SSI, UART, VADC	CAN, I²C, I²S, MMC/SD/SDIO, SAI, SPI, SSI, UART	-

MCIMX6X1AVO08AB Datasheet PDF


Download MCIMX6X1AVO08AB pdf datasheets and NXP USA Inc. documentation for MCIMX6X1AVO08AB - NXP USA Inc..

Datasheets

MCIMX6XxAxx(B,C) Datasheet.pdf


Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

PCN Packaging

 Mult Dev Pkg Seal 15/Dec/2020.pdf

 Tray Attributes 29/Sep/2021.pdf

PCN Assembly/Origin

 2.73KHz.pdf

HTML Datasheet

 i.MX 6 Series Overview.pdf

PCN Design/Specification

 i.MX 6SoloX 01/Jul/2016.pdf

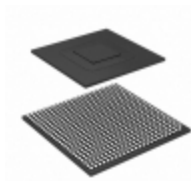
Customers Also Interested in

Recommended Products



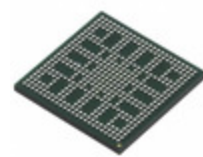
MCIMX6X3EVK10ABR

Freescale Semiconductor
MCIMX6X - i.MX 6 series 32-bit M



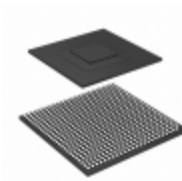
MCIMX6U7CVM08AD

NXP USA Inc.
I.MX6 DUALLITE R PERFN



MCIMX6V7DVM10AB

NXP USA Inc.
I.MX 6 32BIT MPU 1GHZ 432MAPBGA



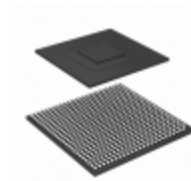
MCIMX6U8DVM10AC

NXP USA Inc.
IC MPU I.MX6DL 1.0GHZ 624MAPBGA



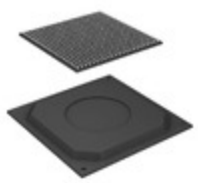
MCIMX6X3CVN08AB

NXP USA Inc.
IC MPU I.MX6SX 800MHZ
400MAPBGA



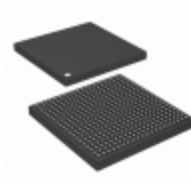
MCIMX6U7CVM08AC

NXP USA Inc.
IC MPU I.MX6DL 800MHZ
624MAPBGA



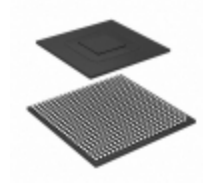
MCIMX6X4AVM08AB

NXP USA Inc.
IC MPU I.MX6SX 800MHZ
529MAPBGA



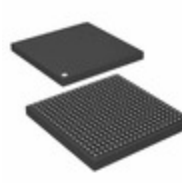
MCIMX6V2CVM08AB

NXP USA Inc.
I.MX6 32BIT MPU 800MHZ
400MAPBGA



MCIMX6U6AVM10AD

NXP USA Inc.
IC MPU I.MX6DL 1GHZ 624MAPBGA



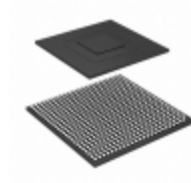
MCIMX6X1EVO10AB

NXP USA Inc.
IC MPU 32BIT I.MX6 800MHZ
400BGA



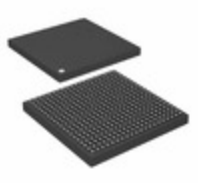
MCIMX6X2EVN10AC

NXP USA Inc.
I.MX6SX ROM PERF ENHAN



MCIMX6U6AVM10AC

NXP USA Inc.
I.MX 6 SERIES 64-BIT MPU DUAL A



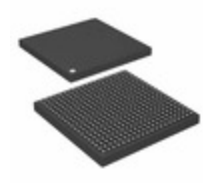
MCIMX6X1CVO08AB

NXP USA Inc.
IC MPU 32BIT I.MX6 800MHZ
400BGA



MCIMX6X3EVK10AB

NXP USA Inc.
IC MPU I.MX6SX 1GHZ 400MAPBGA



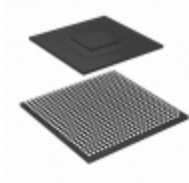
MCIMX6X2EVN10AB

NXP USA Inc.
IC MPU 32BIT I.MX6 800MHZ
400BGA



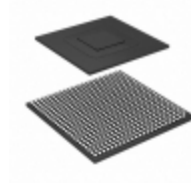
MCIMX6X2AVN08AB

NXP USA Inc.
IC MPU I.MX6SX 800MHZ
400MAPBGA



MCIMX6U7CVM08AB

NXP USA Inc.
IC MPU I.MX6DL 800MHZ
624MAPBGA



MCIMX6U6AVM08AD

NXP USA Inc.
IC MPU I.MX6DL 800MHZ
624MAPBGA

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.

Certifications & Memberships





Phone

+00852 9146 4856



Email

info@allelco.com

[View More](#)



ALLELCO LIMITED
WWW.ALLELCOELEC.COM

Copyright © 2012-2023 AllelcoElec.com. All rights reserved.

Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong

Phone: +00852 9146 4856

Fax: +00852 3010 8510

Email: info@Allelco.com