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See specifications for product details.



MCIMX6S4AVM08AB

Manufacturer Part Number	MCIMX6S4AVM08AB
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MCIMX6S4AVM08AB
ECAD Model	Request Free CAD Models
Parts Description	IC MPU I.MX6S 800MHZ 624MAPBGA
Package	624-LFBGA
Data sheet	i.MX 6 Series Fact Sheet.pdf i.MX 6Solo/6DualLite Appl.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MCIMX6S4AVM08AB - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6S4AVM08AB datasheet/specifications on AllelcoElec.com.
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Specifications

MCIMX6S4AVM08AB Tech Specifications
MCIMX6S4AVM08AB - 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, 3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 + PHY (4)	Mounting Type	Surface Mount
Supplier Device Package	624-MAPBGA (21x21)	Graphics Acceleration	Yes
Speed	800MHz	Ethernet	10/100/1000Mbps (1)
Series	i.MX6S	Display & Interface Controllers	Keypad, LCD
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	Core Processor	ARM® Cortex®-A9
SATA	-	Co-Processors/DSP	Multimedia; NEON™ SIMD
RAM Controllers	LPDDR2, LVDDR3, DDR3	Base Product Number	MCIMX6
Package / Case	624-LFBGA	Additional Interfaces	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MCIMX6S4AVM08AB

Product Attribute				
Part Number	MCIMX6S4AVM08AB	MCIMX6S5EVM10ACR	MCIMX6QP7CVT8AA	MCIMX6S5EVM10AB
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
Series	i.MX6S	i.MX6S	i.MX6QP	i.MX6S
Operating Temperature	-40°C ~ 125°C (TJ)	-20°C ~ 105°C (TJ)	-40°C ~ 105°C (TA)	-20°C ~ 105°C (TJ)
Additional Interfaces	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART	CAN, EBI/EMI, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, S/PDIF, UART	CAN, I ² C, I ² S, MMC/SD/SDIO, SAI, SPI, SSI, UART
Package	Tray	Tape & Reel (TR)	Tray	Tray
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	HDMI, Keypad, LCD, LVDS, MIPI/DSI, Parallel	Keypad, LCD
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD
Graphics Acceleration	Yes	Yes	Yes	Yes
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (3), USB 2.0 OTG + PHY (1)	USB 2.0 + PHY (4)
SATA	-	-	SATA 3Gbps (1)	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	800MHz	1.0GHz	800MHz	1.0GHz
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
Voltage - I/O	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V	1.8V, 2.5V, 2.8V, 3.3V
Package / Case	624-LFBGA	624-LFBGA	624-FBGA, FCBGA	624-LFBGA
Security Features	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection	ARM TZ, A-HAB, CAAM, CSU, SJC, SNVS	ARM TZ, Boot Security, Cryptography, RTIC, Secure Fusebox, Secure JTAG, Secure Memory, Secure RTC, Tamper Detection
Core Processor	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9
RAM Controllers	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, DDR3L, DDR3	LPDDR2, LVDDR3, DDR3
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	4 Core, 32-Bit	1 Core, 32-Bit
Supplier Device Package	624-MAPBGA (21x21)	624-MAPBGA (21x21)	624-FCBGA (21x21)	624-MAPBGA (21x21)

MCIMX6S4AVM08AB Datasheet PDF

Download MCIMX6S4AVM08AB pdf datasheets and NXP USA Inc. documentation for MCIMX6S4AVM08AB - NXP USA Inc..


Datasheets

[i.MX 6 Series Fact Sheet.pdf](#)

[i.MX 6Solo/6DualLite Appl.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

 NXP USA Inc RoHS Cert.pdf

PCN Assembly/Origin

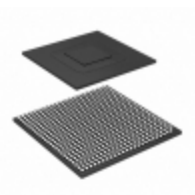
 Mult Dev A/T Site 28/Apr/2021.pdf

Errata

 i.MX 6Solo/6DualLite Errata.pdf

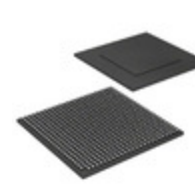
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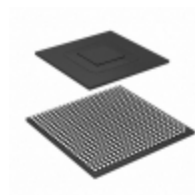
MCIMX6S5EVM10ACR

NXP USA Inc.
IC MPU I.MX6S 1.0GHZ 624MAPBGA



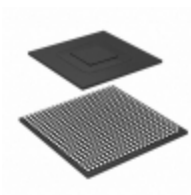
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IC MPU I.MX6S 1.0GHZ 624MAPBGA



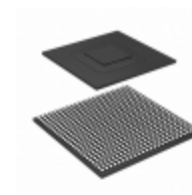
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IC MPU I.MX6S 800MHZ 624MAPBGA



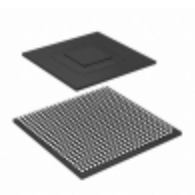
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NXP USA Inc.
I.MX 6QP ROM PERF ENHAN



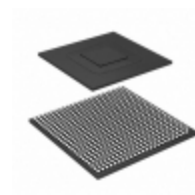
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II.MX 6S ROM PERF ENHAN



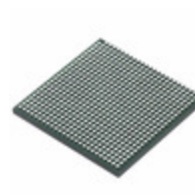
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NXP USA Inc.
IC MPU I.MX6S 1.0GHZ 624MAPBGA



MCIMX6S1AVM08AB

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IC MPU I.MX6S 800MHZ 624MAPBGA



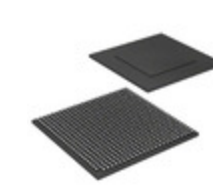
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NXP USA Inc.
IC MPU I.MX6QP ENHAN 624FCBGA



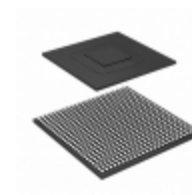
MCIMX6S1AVM08AB

Freescal Semiconductor
I.MX 6 SERIES 32 BIT MPU, ARM CO



MCIMX6QP6AVT1AB

NXP USA Inc.
I.MX 6QP ROM PERF ENHAN



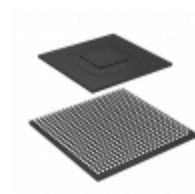
MCIMX6S4AVM08AC

NXP USA Inc.
IC MPU I.MX6S 800MHZ 624MAPBGA



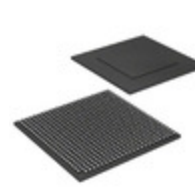
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Freescal Semiconductor
I.MX 6 SERIES 32 BIT MPU, ARM CO



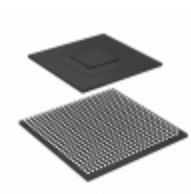
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NXP USA Inc.
IC MPU I.MX6S 1.0GHZ 624MAPBGA



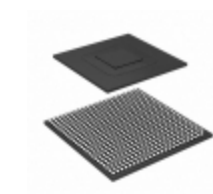
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NXP USA Inc.
IC MPU I.MX6QP 1GHZ 624FCBGA



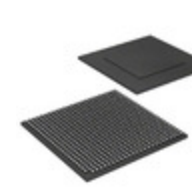
MCIMX6S5DVM10AB

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IC MPU I.MX6S 1.0GHZ 624MAPBGA



MCIMX6S4AVM08ACR

NXP USA Inc.
IC MPU I.MX6S 800MHZ 624MAPBGA



MCIMX6QP6AVT1AA

NXP USA Inc.
IC MPU I.MX6QP 1GHZ 624FCBGA

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.



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Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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