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See specifications for product details.



MCIMX6S6AVM08ABR

Manufacturer Part Number	MCIMX6S6AVM08ABR
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MCIMX6S6AVM08ABR
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 MCIMX6(S,U)yAyyyyyB.pdf
RoHs Status	ROHS3 Compliant

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MCIMX6S6AVM08ABR - NXP USA Inc..New Original in Stock. Download Linear Technology MCIMX6S6AVM08ABR datasheet/specifications on AllelcoElec.com.
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Specifications

MCIMX6S6AVM08ABR Tech Specifications
MCIMX6S6AVM08ABR - 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	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MCIMX6S6AVM08ABR

Product Attribute				
Part Number	MCIMX6S6AVM08ABR	MCIMX6S6AVM10AD	MCIMX6S5EVM10ADR	MCIMX6S7CVM08AC
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Series	i.MX6S	i.MX6S	i.MX6S	i.MX6S
Supplier Device Package	624-MAPBGA (21x21)	624-MAPBGA (21x21)	624-MAPBGA (21x21)	624-MAPBGA (21x21)
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, 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
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
Ethernet	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)	10/100/1000Mbps (1)
Base Product Number	MCIMX6	MCIMX6	MCIMX6	MCIMX6
Core Processor	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9	ARM® Cortex®-A9
USB	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)	USB 2.0 + PHY (4)
Speed	800MHz	1GHz	1GHz	800MHz
RAM Controllers	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3	LPDDR2, LVDDR3, DDR3
Package	Tape & Reel (TR)	Tray	Tape & Reel (TR)	Tray
Display & Interface Controllers	Keypad, LCD	Keypad, LCD	Keypad, LCD	Keypad, LCD
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, 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
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-20°C ~ 105°C (TJ)	-40°C ~ 105°C (TA)
Graphics Acceleration	Yes	Yes	Yes	Yes
SATA	-	-	-	-
Package / Case	624-LFBGA	624-LFBGA	624-LFBGA	624-LFBGA
Co-Processors/DSP	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD	Multimedia; NEON™ SIMD

MCIMX6S6AVM08ABR Datasheet PDF

Download MCIMX6S6AVM08ABR pdf datasheets and NXP USA Inc. documentation for MCIMX6S6AVM08ABR - NXP USA Inc..

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


 2.73KHz.pdf

Errata

 i.MX 6Solo/6DualLite Errata.pdf

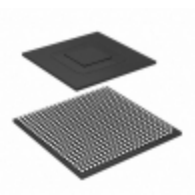
HTML Datasheet

 i.MX 6 Series Fact Sheet.pdf

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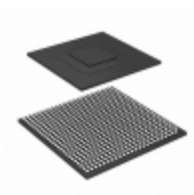
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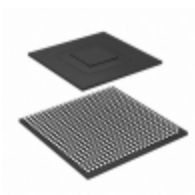
MCIMX6S6AVM10AD

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



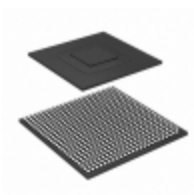
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I.MX 6S ROM PERF ENHAN



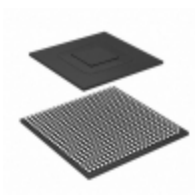
MCIMX6S7CVM08AC

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



MCIMX6S6AVM08AC

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



MCIMX6S5EVM10AC

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



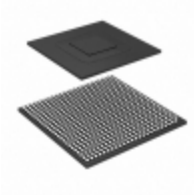
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Freescale Semiconductor
I.MX 6 SERIES 32-BIT MPU, ARM CO



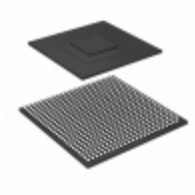
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Freescale Semiconductor
RISC Microprocessor, 1000MHz, CM



MCIMX6S7CVM08AD

NXP USA Inc.
I.MX6 SOLO ROM PERFENHAN



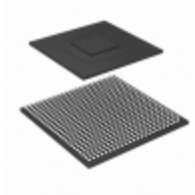
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NXP USA Inc.
I.MX 6S ROM PERF ENHAN



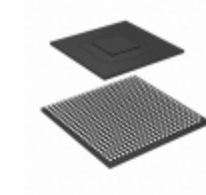
MCIMX6S6AVM08AB

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



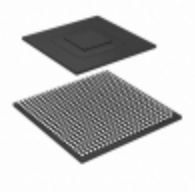
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NXP USA Inc.
IC MPU I.MX6S 1.0GHZ 624MAPBGA



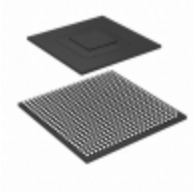
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NXP USA Inc.
IC MPU I.MX6S 1.0GHZ 624MAPBGA



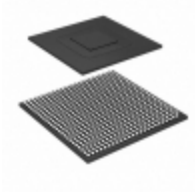
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NXP USA Inc.
IC MPU I.MX6S 800MHZ 624MAPBGA



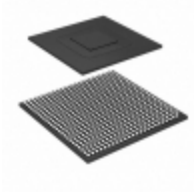
MCIMX6S8DVM10AB

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



MCIMX6S8DVM10AC

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IC MPU I.MX6S 1.0GHZ 624MAPBGA



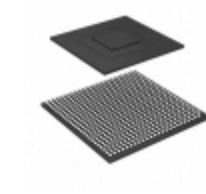
MCIMX6S5DVM10AD

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II.MX 6S ROM PERF ENHAN



MCIMX6S8DVM10AB

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



MCIMX6U1AVM08AC

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.

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Certifications & Memberships



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