

Image may be representation.
See specifications for product details.



P2020PSE2MZB

Manufacturer Part Number	P2020PSE2MZB
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-P2020PSE2MZB
ECAD Model	Request Free CAD Models
Parts Description	IC MPU Q OR IQ 1.2GHZ 689TEBGA
Package	689-BBGA Exposed Pad
Data sheet	P2010/20 Overview.pdf
	P2 Platform Series.pdf
RoHs Status	ROHS3 Compliant

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Specifications

P2020PSE2MZB Tech Specifications

P2020PSE2MZB - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	0°C ~ 125°C (TA)
Voltage - I/O	-	Number of Cores/Bus Width	2 Core, 32-Bit
USB	USB 2.0 + PHY (2)	Mounting Type	Surface Mount
Supplier Device Package	689-TEPBGA II (31x31)	Graphics Acceleration	No
Speed	1.2GHz	Ethernet	10/100/1000Mbps (3)
Series	QorIQ P2	Display & Interface Controllers	-
Security Features	Cryptography, Random Number Generator	Core Processor	PowerPC e500v2
SATA	-	Co-Processors/DSP	Security; SEC 3.3
RAM Controllers	DDR2, DDR3	Base Product Number	P2020
Package / Case	689-BBGA Exposed Pad	Additional Interfaces	DUART, I ² C, MMC/SD, SPI
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. P2020PSE2MZB

Product Attribute				
Part Number	P2020PSE2MZB	P2020NXN2HFC	P2020PSE2KZB	P2020NXN2MHC
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Display & Interface Controllers	-	-	-	-
Speed	1.2GHz	1.2GHz	1.2GHz	1.2GHz
Ethernet	10/100/1000Mbps (3)	10/100/1000Mbps (3)	10/100/1000Mbps (3)	10/100/1000Mbps (3)
Number of Cores/Bus Width	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit	2 Core, 32-Bit
Package / Case	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad
Series	QorIQ P2	QorIQ P2	QorIQ P2	QorIQ P2
USB	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)	USB 2.0 + PHY (2)
Base Product Number	P2020	P2020	P2020	P2020
Core Processor	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2	PowerPC e500v2
Package	Tray	Tray	Box	Tray
Voltage - I/O	-	-	-	-
Additional Interfaces	DUART, I ² C, MMC/SD, SPI	DUART, I ² C, MMC/SD, SPI	DUART, I ² C, MMC/SD, SPI	DUART, I ² C, MMC/SD, SPI
Graphics Acceleration	No	No	No	No
RAM Controllers	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3	DDR2, DDR3
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Security Features	Cryptography, Random Number Generator	-	Cryptography, Random Number Generator	-
Co-Processors/DSP	Security; SEC 3.3	-	Security; SEC 3.3	-
Supplier Device Package	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)
SATA	-	-	-	-
Operating Temperature	0°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	0°C ~ 125°C (TA)	-40°C ~ 125°C (TA)

P2020PSE2MZB Datasheet PDF

Download P2020PSE2MZB pdf datasheets and NXP USA Inc. documentation for P2020PSE2MZB - NXP USA Inc..

Datasheets


[P2010/20 Overview.pdf](#)

PCN Packaging

[2.73KHz.pdf](#)

Environmental Information

 NXP USA Inc REACH.pdf


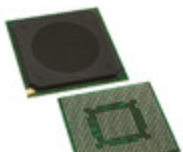
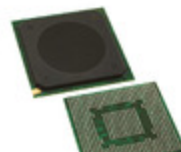

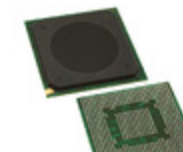






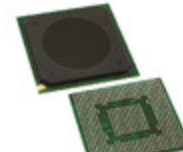
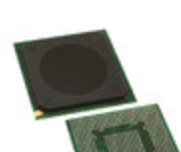
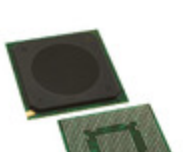


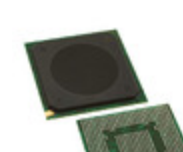
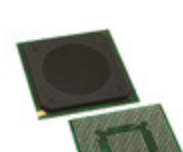
 NXP USA Inc RoHS Cert.pdf

HTML Datasheet

 P2 Platform Series.pdf

Customers Also Interested in

Recommended Products

 P2026NL PUISE	 P2020NXN2HFC NXP USA Inc. IC MPU QORIQ P2 1.2GHZ PBGA689	 P2020PSE2KZB NXP USA Inc. IC MPU Q OR IQ 1.2GHZ 689TEBGA	 P2020SXE2MHC Freescale / NXP Semiconductors	 P2020NXN2MHC NXP USA Inc. IC MPU Q OR IQ 1.2GHZ 689TEBGA	 P2020PSE2KFC Freescale / NXP Semiconductors
 P2020SXN2MHC Freescale / NXP Semiconductors	 P2025NLT Pulse Electronics TRANSFORMER	 P2020PSE2HZB Freescale Semiconductor QORIQ RISC MICROPROCESSOR, POWER	 P2025T Pulse Electronics	 P2020PSE4KZA Freescale / NXP Semiconductors	 P2020PSE2KZA NXP USA Inc. IC MPU Q OR IQ 1.2GHZ 689TEBGA
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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,
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