

Image may be representation.  
See specifications for product details.



## MPC8313EVRAFFC

Manufacturer Part Number	<b>MPC8313EVRAFFC</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MPC8313EVRAFFC
ECAD Model	Request Free CAD Models
Parts Description	IC MPU MPC83XX 333MHZ 516BGA
Package	516-BBGA Exposed Pad
Data sheet	<b>MPC8313E Hrdw Specifications.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MPC8313EVRAFFC - NXP USA Inc..New Original in Stock. Download Linear Technology MPC8313EVRAFFC datasheet/specifications on AllelcoElec.com.  
Request a quote for MPC8313EVRAFFC, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MPC8313EVRAFFC Tech Specifications  
MPC8313EVRAFFC - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	0°C ~ 105°C (TA)
Voltage - I/O	1.8V, 2.5V, 3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 + PHY (1)	Mounting Type	Surface Mount
Supplier Device Package	516-TEPBGA (27x27)	Graphics Acceleration	No
Speed	333MHz	Ethernet	10/100/1000Mbps (2)
Series	MPC83xx	Display & Interface Controllers	-
Security Features	Cryptography	Core Processor	PowerPC e300c3
SATA	-	Co-Processors/DSP	Security; SEC 2.2
RAM Controllers	DDR, DDR2	Base Product Number	MPC8313
Package / Case	516-BBGA Exposed Pad	Additional Interfaces	DUART, HSSI, I <sup>2</sup> C, PCI, SPI
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MPC8313EVRAFFC

Product Attribute				
Part Number	MPC8313EVRAFFC	<b>MPC8313EVRAFFC</b>	<b>MPC8313EVRAFFC</b>	<b>MPC8313EVRAFFC</b>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Display & Interface Controllers	-	-	-	-
SATA	-	-	-	-
RAM Controllers	DDR, DDR2	DDR, DDR2	DDR, DDR2	DDR, DDR2
Supplier Device Package	516-TEPBGA (27x27)	516-TEPBGA (27x27)	516-TEPBGA (27x27)	516-TEPBGA (27x27)
Security Features	Cryptography	Cryptography	Cryptography	Cryptography
Additional Interfaces	DUART, HSSI, I <sup>2</sup> C, PCI, SPI	DUART, HSSI, I <sup>2</sup> C, PCI, SPI	DUART, HSSI, I <sup>2</sup> C, PCI, SPI	DUART, HSSI, I <sup>2</sup> C, PCI, SPI
Package / Case	516-BBGA Exposed Pad	516-BBGA Exposed Pad	516-BBGA Exposed Pad	516-BBGA Exposed Pad
Package	Tray	Tray	Tray	Tray
Speed	333MHz	400MHz	333MHz	333MHz
Voltage - I/O	1.8V, 2.5V, 3.3V	1.8V, 2.5V, 3.3V	1.8V, 2.5V, 3.3V	1.8V, 2.5V, 3.3V
Ethernet	10/100/1000Mbps (2)	10/100/1000Mbps (2)	10/100/1000Mbps (2)	10/100/1000Mbps (2)
Base Product Number	MPC8313	MPC83	MPC83	MPC83
Series	MPC83xx	MPC83xx	MPC83xx	MPC83xx
Operating Temperature	0°C ~ 105°C (TA)	0°C ~ 105°C (TA)	0°C ~ 105°C (TA)	0°C ~ 105°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Graphics Acceleration	No	No	No	No
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Co-Processors/DSP	Security; SEC 2.2	Security; SEC 2.2	Security; SEC 2.2	Security; SEC 2.2
USB	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)
Core Processor	PowerPC e300c3	PowerPC e300c3	PowerPC e300c3	PowerPC e300c3

### MPC8313EVRAFFC Datasheet PDF

Download MPC8313EVRAFFC pdf datasheets and NXP USA Inc. documentation for MPC8313EVRAFFC - NXP USA Inc..

#### Datasheets

[MPC8313E Hrdw Specifications.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 Design/Specification

 Mult Dev 25/May/2020.pdf

 Trace Marking Removal 20/Jun/2019.pdf

## Errata

 TBI Link Status Errata.pdf

## Customers Also Interested in

### Recommended Products

					
<b>MPC8313EVRAAGDB</b> NXP USA Inc. IC MPU MPC83XX 400MHZ 516BGA	<b>MPC8313EVRAFFB</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA	<b>MPC8313EVRAFF</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA	<b>MPC8313CZQAFFC</b> NXP USA Inc. IC MPU POWERQUICC II PRO 516PBGA	<b>MPC8313VRADDB</b> Freescale Semiconductor 32-BIT, 400MHZ, CMOS, PBGA516	<b>MPC8313VRAFF</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA
					
<b>MPC8313EVRAFFB</b> Freescale Semiconductor MPU, 32-BIT, 333MHZ, PBGA516	<b>MPC8313ECVRAFFB</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA	<b>MPC8313VRAFFB</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA	<b>MPC8313VRAFFB</b> Freescale Semiconductor MPU, 32-BIT, 333MHZ, PBGA516	<b>MPC8313CZQAGDC</b> Freescale Semiconductor POWERQUICC 32 BIT POWER ARCHITEC	<b>MPC8313CZQAFF</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA
					
<b>MPC8313VRAFF</b> Freescale Semiconductor MPU, 32-BIT, 333MHZ, PBGA516	<b>MPC8313CZQAGDC</b> NXP USA Inc. IC MPU MPC83XX 400MHZ 516BGA	<b>MPC8313CZQAFFC</b> Freescale Semiconductor POWERQUICC 32 BIT POWER ARCHITEC	<b>MPC8313ECVRAAGDB</b> NXP USA Inc. IC MPU MPC83XX 400MHZ 516BGA	<b>MPC8313VRAFFC</b> NXP USA Inc. IC MPU MPC83XX 333MHZ 516BGA	<b>MPC8313VRADDB</b> NXP USA Inc. IC MPU MPC83XX 267MHZ 516BGA

## 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 Alleco 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
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Contact us if you have any questions.

 Phone +00852 9146 4856	 Email info@alleco.com
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## Certifications & Memberships



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