

Image may be representation.  
See specifications for product details.



## MPC8377VRANGA

Manufacturer Part Number **MPC8377VRANGA**

Manufacturer **NXP Semiconductors**

Allelco Part Number **32D-MPC8377VRANGA**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MPU MPC83XX 800MHZ 689TEBGA**

Package **689-BBGA Exposed Pad**

Data sheet **[MPC8377E.pdf](#)**

**[MPC837x PowerQUICC® II Pro Brochure.pdf](#)**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

MPC8377VRANGA - NXP USA Inc..New Original in Stock. Download Linear Technology MPC8377VRANGA datasheet/specifications on AllelcoElec.com.  
Request a quote for MPC8377VRANGA, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

MPC8377VRANGA Tech Specifications

MPC8377VRANGA - 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	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	689-TEPBGA II (31x31)	Graphics Acceleration	No
Speed	800MHz	Ethernet	10/100/1000Mbps (2)
Series	MPC83xx	Display & Interface Controllers	-
Security Features	-	Core Processor	PowerPC e300c4s
SATA	SATA 3Gbps (2)	Co-Processors/DSP	-
RAM Controllers	DDR, DDR2	Base Product Number	MPC8377
Package / Case	689-BBGA Exposed Pad	Additional Interfaces	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MPC8377VRANGA

Product Attribute				
Part Number	MPC8377VRANGA	MPC8377VRAJFA	MPC8378VRALGA	MPC8377EVRAJFA
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Supplier Device Package	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)	689-TEPBGA II (31x31)
USB	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)	USB 2.0 + PHY (1)
Display & Interface Controllers	-	-	-	-
Series	MPC83xx	MPC83xx	MPC83xx	MPC83xx
Graphics Acceleration	No	No	No	No
SATA	SATA 3Gbps (2)	SATA 3Gbps (2)	-	SATA 3Gbps (2)
Package / Case	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad	689-BBGA Exposed Pad
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
Security Features	-	-	-	Cryptography, Random Number Generator
Base Product Number	MPC8377	MPC8377	MPC8378	MPC8377
Ethernet	10/100/1000Mbps (2)	10/100/1000Mbps (2)	10/100/1000Mbps (2)	10/100/1000Mbps (2)
RAM Controllers	DDR, DDR2	DDR, DDR2	DDR, DDR2	DDR, DDR2
Number of Cores/Bus Width	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit	1 Core, 32-Bit
Core Processor	PowerPC e300c4s	PowerPC e300c4s	PowerPC e300c4s	PowerPC e300c4s
Package	Tray	Tray	Tray	Tray
Additional Interfaces	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI	DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI
Co-Processors/DSP	-	-	-	Security; SEC 3.0
Operating Temperature	0°C ~ 125°C (TA)	0°C ~ 125°C (TA)	0°C ~ 125°C (TA)	0°C ~ 125°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Speed	800MHz	533MHz	667MHz	533MHz

## MPC8377VRANGA Datasheet PDF

Download MPC8377VRANGA pdf datasheets and NXP USA Inc. documentation for MPC8377VRANGA - NXP USA Inc..

### Datasheets

[MPC8377E.pdf](#)


[MPC837x PowerQUICC® II Pro Brochure.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

## PCN Obsolescence/ EOL

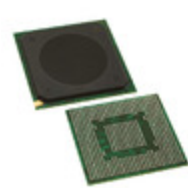
 Mult Dev EOL 04/Mar/2021.pdf

## Errata

 USB Errata.pdf

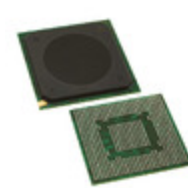
## Customers Also Interested in

### Recommended Products



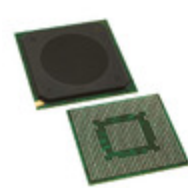
#### MPC8377VRAJFA

NXP USA Inc.  
IC MPU MPC83XX 533MHZ 689TEBGA



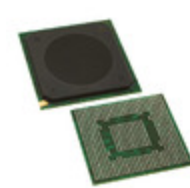
#### MPC8378VRALGA

NXP USA Inc.  
IC MPU MPC83XX 667MHZ 689TEBGA



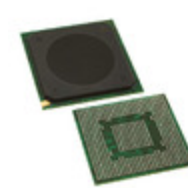
#### MPC8377EVRAJFA

NXP USA Inc.  
IC MPU MPC83XX 533MHZ 689TEBGA



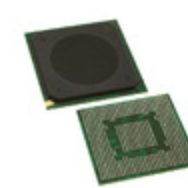
#### MPC8377VRALG

NXP USA Inc.  
IC MPU MPC83XX 667MHZ 689TEBGA



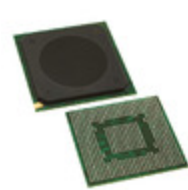
#### MPC8377VRALGA

NXP USA Inc.  
IC MPU MPC83XX 667MHZ 689TEBGA



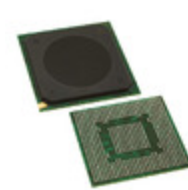
#### MPC8377VRANG

NXP USA Inc.  
IC MPU MPC83XX 800MHZ 689TEBGA



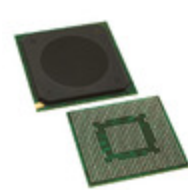
#### MPC8377VRAJF

NXP USA Inc.  
IC MPU MPC83XX 533MHZ 689TEBGA



#### MPC8378EVRANGA

NXP USA Inc.  
IC MPU MPC83XX 800MHZ 689TEBGA



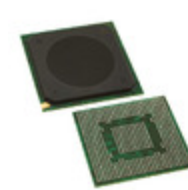
#### MPC8378EVRALG

NXP USA Inc.  
IC MPU MPC83XX 667MHZ 689TEBGA



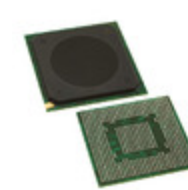
#### MPC8378EVRANGA

Freescle Semiconductor  
POWERQUICC 32 BIT POWER ARCH  
SOC



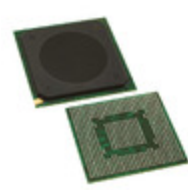
#### MPC8378CVRAGDA

NXP USA Inc.  
IC MPU MPC83XX 400MHZ 689TEBGA



#### MPC8378CVRANGA

NXP USA Inc.  
IC MPU MPC83XX 800MHZ 689TEBGA



#### MPC8378VRAGD

NXP USA Inc.  
IC MPU MPC83XX 400MHZ 689TEBGA



#### MPC8378CVRAGDA

Freescle Semiconductor  
POWERQUICC 32 BIT POWER ARCH  
SOC



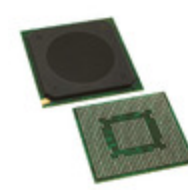
#### MPC8377EVRAJFA

Freescle Semiconductor  
POWERQUICC 32 BIT POWER ARCH  
SOC



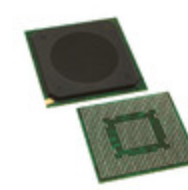
#### MPC8377VRALG

Freescle Semiconductor  
POWERQUICC RISC  
MICROPROCESSOR,



#### MPC8378EVRANGA

NXP USA Inc.  
IC MPU MPC83XX 800MHZ 689TEBGA



#### MPC8377EVRANGA

NXP USA Inc.  
IC MPU MPC83XX 800MHZ 689TEBGA

## 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

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@alleco.com

## Certifications & Memberships



View More

#### 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](mailto:info@Allelco.com)