

Image may be representation.  
See specifications for product details.



## SPC565MZP56D

Manufacturer Part Number	<b>SPC565MZP56D</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-SPC565MZP56D
ECAD Model	Request Free CAD Models
Parts Description	<b>IC MCU 32BIT 1MB FLASH 388PBGA</b>
Package	<b>388-BBGA</b>
Data sheet	SPC565MZP56D.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

SPC565MZP56D - NXP USA Inc..New Original in Stock. Download Linear Technology SPC565MZP56D datasheet/specifications on AllelcoElec.com.  
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### Specifications

SPC565MZP56D Tech Specifications

SPC565MZP56D - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Oscillator Type	External
Voltage - Supply (Vcc/Vdd)	2.5V ~ 2.7V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	388-PBGA (27x27)	Number of I/O	56
Speed	56MHz	Mounting Type	Surface Mount
Series	MPC5xx	EEPROM Size	-
RAM Size	36K x 8	Data Converters	A/D 40x10b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	1MB (1M x 8)	Core Processor	PowerPC
Peripherals	POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, SCI, SPI, UART/USART
Package / Case	388-BBGA	Base Product Number	SPC565
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. SPC565MZP56D

Product Attribute				
Part Number	SPC565MZP56D	SPC5668EF1AVMG	SPC564A80L7CFAR	SPC5668GAVMG
Manufacturer	NXP USA Inc.	Freescale Semiconductor	STMicroelectronics	NXP USA Inc.
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Base Product Number	SPC565	SPC5668	SPC564	SPC5668
Program Memory Size	1MB (1M x 8)	2MB (2M x 8)	4MB (4M x 8)	2MB (2M x 8)
RAM Size	36K x 8	128K x 8	192K x 8	592K x 8
Speed	56MHz	116MHz	150MHz	116MHz
Peripherals	POR, PWM, WDT	DMA, POR, PWM, WDT	DMA, POR, PWM, WDT	DMA, POR, PWM, WDT
Data Converters	A/D 40x10b	A/D 64x10b	A/D 34x12b	A/D 36x10b
Package / Case	388-BBGA	208-BGA	176-LQFP	208-BGA
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tray	Bulk	Tape & Reel (TR)	Tray
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	MPC5xx	MPC56xx Qorivva	Automotive, AEC-Q100, SPC56	MPC56xx Qorivva
Number of I/O	56	155	118	155
Supplier Device Package	388-PBGA (27x27)	208-BGA (17x17)	176-LQFP (24x24)	208-BGA (17x17)
Core Processor	PowerPC	e200z650	e200z4	e200z650
Voltage - Supply (Vcc/Vdd)	2.5V ~ 2.7V	3V ~ 5.5V	1.14V ~ 1.32V	3V ~ 5.5V
Connectivity	CANbus, EBI/EMI, SCI, SPI, UART/USART	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI	CANbus, EBI/EMI, LINbus, SCI, SPI	CANbus, Ethernet, I <sup>2</sup> C, LINbus, SCI, SPI
EEPROM Size	-	-	-	-
Oscillator Type	External	Internal	Internal	Internal

### SPC565MZP56D Datasheet PDF

Download SPC565MZP56D pdf datasheets and NXP USA Inc. documentation for SPC565MZP56D - NXP USA Inc..

#### PCN Packaging

All Dev Label Update 15/Dec/2020.pdf

Mult Dev Pkg Seal 15/Dec/2020.pdf




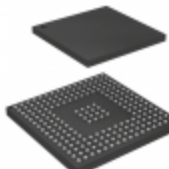


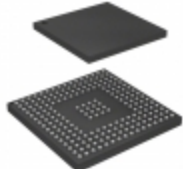
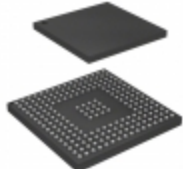








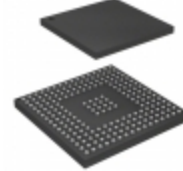
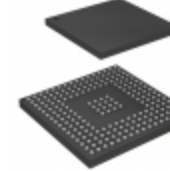
#### Environmental Information

NXP USA Inc REACH.pdf

NXP USA Inc RoHS Cert.pdf

## Customers Also Interested in

### Recommended Products

					
<b>SPC5668EF1AVMG</b> Freescale Semiconductor IC MCU 32BIT 2MB FLASH 208MAPBGA	<b>SPC564A80L7CFAR</b> STMicroelectronics IC MCU 32BIT 4MB FLASH 176LQFP	<b>SPC5668GAMMG</b> Freescale / NXP Semiconductors	<b>SPC5668GAVMG</b> NXP USA Inc. IC MCU 32BIT 2MB FLASH 208MAPBGA	<b>SPC5668EAVMG</b> Freescale / NXP Semiconductors	<b>SPC564L54L3BCOQR</b> STMicroelectronics IC MCU 32BIT 768KB FLASH 100LQFP
					
<b>SPC5668GK0VMG</b> NXP USA Inc. IC MCU 32BIT 2MB FLASH 208MAPBGA	<b>SPC5668GK0MMG</b> NXP USA Inc. IC MCU 32BIT 2MB FLASH 208MAPBGA	<b>SPC564A70L7CFAY</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	<b>SPC5668EVMG</b> Freescale / NXP Semiconductors	<b>SPC564A80L7COBR</b> STMicroelectronics IC MCU 32BIT 4MB FLASH 176LQFP	<b>SPC564B64L7C800X</b> STMicroelectronics IC MCU 32BIT 1.5MB FLASH 176LQFP
					
<b>SPC5668EMMG</b> Freescale / NXP Semiconductors	<b>SPC564A80L7CFA</b> NA	<b>SPC564B74L8C9E0X</b> STMicroelectronics IC MCU 32BIT 3MB FLASH 208LQFP	<b>SPC564A70L7COBR</b> STMicroelectronics IC MCU 32BIT 2MB FLASH 176LQFP	<b>SPC5668GK0MMGR</b> NXP USA Inc. IC MCU 32BIT 2MB FLASH 208MAPBGA	<b>SPC5668EF1AVMG</b> NXP USA Inc. IC MCU 32BIT 2MB FLASH 208MAPBGA

## 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 -



Contact us if you have any questions.



### Certifications & Memberships



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