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See specifications for product details.



## MC56F84442VLH

Manufacturer Part Number	<b>MC56F84442VLH</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-MC56F84442VLH
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC MCU 32BIT 64KB FLASH 64LQFP
Package	64-LQFP
Data sheet	MC56F84442VLH.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

MC56F84442VLH - NXP USA Inc..New Original in Stock. Download Linear Technology MC56F84442VLH datasheet/specifications on AllelcoElec.com.  
Request a quote for MC56F84442VLH, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MC56F84442VLH Tech Specifications

MC56F84442VLH - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	64-LQFP (10x10)	Number of I/O	54
Speed	60MHz	Mounting Type	Surface Mount
Series	56F8xxx	EEPROM Size	2K x 8
RAM Size	8K x 8	Data Converters	A/D 16x12b, 8x16b
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	64KB (64K x 8)	Core Processor	56800EX
Peripherals	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Connectivity	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI
Package / Case	64-LQFP	Base Product Number	MC56F84
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MC56F84442VLH

Product Attribute				
Part Number	MC56F84442VLH	MC56F84441VLF	MC56F83686VLK	MC56F84543VLH
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Core Processor	56800EX	56800EX	56800EX	56800EX
Program Memory Size	64KB (64K x 8)	64KB (64K x 8)	256KB (256K x 8)	64KB (64K x 8)
Number of I/O	54	39	68	54
Supplier Device Package	64-LQFP (10x10)	48-LQFP (7x7)	80-FQFP (12x12)	64-LQFP (10x10)
Peripherals	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT	Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT
EEPROM Size	2K x 8	2K x 8	-	2K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 3.6V	3V ~ 3.6V	2.7V ~ 3.6V	3V ~ 3.6V
RAM Size	8K x 8	8K x 8	64K x 8	8K x 8
Data Converters	A/D 16x12b, 8x16b	A/D 10x10b	A/D 20x12b; D/A 2x12b	A/D 16x12b, 8x16b; D/A 1x12b
Series	56F8xxx	56F8xxx	56F836xxx	56F8xxx
Connectivity	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI	CANbus, I <sup>2</sup> C, LINbus, SCI, SPI
Speed	60MHz	60MHz	100MHz	80MHz
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Package	Tray	Tray	Tray	Tray
Package / Case	64-LQFP	48-LQFP	80-LQFP	64-LQFP
Oscillator Type	Internal	Internal	Internal	Internal
Base Product Number	MC56F84	MC56F84	MC56F83	MC56F84
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core

### MC56F84442VLH Datasheet PDF

Download MC56F84442VLH pdf datasheets and NXP USA Inc. documentation for MC56F84442VLH - NXP USA Inc..

#### Environmental Information

[NXP USA Inc REACH.pdf](#)

[NXP USA Inc RoHS Cert.pdf](#)

#### PCN Packaging

[Mult Dev Pkg Seal 15/Dec/2020.pdf](#)

[Mult Dev Pkg Chgs 8/Feb/2022.pdf](#)

## PCN Assembly/Origin



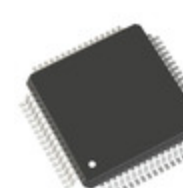
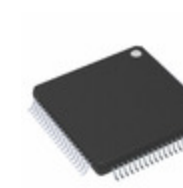



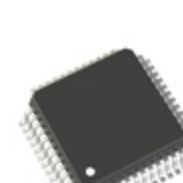




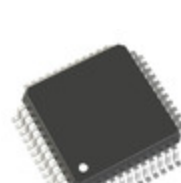
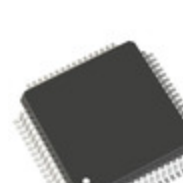

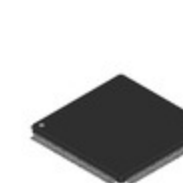

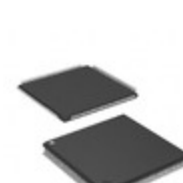
 Mult Dev Site Chgs 18/Dec/2020.pdf

## PCN Design/Specification

 Mult Dev 25/May/2020.pdf

## Customers Also Interested in

### Recommended Products

					
<b>MC56F84441VLF</b> NXP USA Inc. IC MCU 32BIT 64KB FLASH 48LQFP	<b>MC56F83686VLK</b> NXP USA Inc. IC MCU 32BIT 256KB FLASH 80LQFP	<b>MC56F84543VLH</b> NXP USA Inc. IC MCU 32BIT 64KB FLASH 64LQFP	<b>MC56F84565VLKR</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	<b>MC56F8367VPYE</b> NXP USA Inc. IC MCU 16BIT 512KB FLASH 160LQFP	<b>MC56F83786VLK</b> NXP USA Inc. IC MCU 32BIT 256KB FLASH 80LQFP
					
<b>MC56F84441VLF</b> Freescale Semiconductor MC56F84462 - 32-bit DSC, 56800EX	<b>MC56F84550VLF</b> NXP USA Inc. IC MCU 32BIT 96KB FLASH 48LQFP	<b>MC56F84442V</b> Freescale / NXP Semiconductors	<b>MC56F8367MPYE</b> NXP USA Inc. IC MCU 16BIT 512KB FLASH 160LQFP	<b>MC56F84451F</b> Freescale / NXP Semiconductors	<b>MC56F84550VLF</b> Freescale Semiconductor MC56F84553 - 32-bit DSC, 56800EX
					
<b>MC56F84550VLF</b> NXP USA Inc. IC MCU 32BIT 96KB FLASH 48LQFP	<b>MC56F84553VLH</b> NXP USA Inc. IC MCU 32BIT 96KB FLASH 64LQFP	<b>MC56F84565VLK</b> NXP USA Inc. IC MCU 32BIT 128KB FLASH 80FQFP	<b>MC56F8366MFVE</b> Freescale Semiconductor IC MCU 16BIT 512KB FLASH 144LQFP	<b>MC56F8442V</b> Freescale / NXP Semiconductors	<b>MC56F8366VFVE</b> NXP USA Inc. IC MCU 16BIT 512KB FLASH 144LQFP

## 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, 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@allelco.com
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