



S9S12HY32J0MLL

Manufacturer Part Number	S9S12HY32J0MLL
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-S9S12HY32J0MLL
ECAD Model	PCB Footprint and Symbol
Parts Description	IC MCU 16BIT 32KB FLASH 100LQFP
Package	100-LQFP
Data sheet	MC9S12HY64 Ref Manual.pdf
RoHs Status	ROHS3 Compliant

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Specifications

S9S12HY32J0MLL Tech Specifications
S9S12HY32J0MLL - 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)	4.5V ~ 5.5V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	80
Speed	32MHz	Mounting Type	Surface Mount
Series	HCS12	EEPROM Size	4K x 8
RAM Size	2K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	32KB (32K x 8)	Core Processor	HCS12
Peripherals	LCD, Motor control PWM, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI
Package / Case	100-LQFP	Base Product Number	S9S12
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. S9S12HY32J0MLL

Product Attribute	NO PICTURE			
Part Number	S9S12HY32J0MLL	S9S12HY64J0CLLR	S9S12HY64J0MLH	S9S12HA48J0CLL
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Peripherals	LCD, Motor control PWM, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT	LCD, Motor control PWM, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V	4.5V ~ 5.5V
Speed	32MHz	32MHz	32MHz	32MHz
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Supplier Device Package	100-LQFP (14x14)	100-LQFP (14x14)	64-LQFP (10x10)	100-LQFP (14x14)
EEPROM Size	4K x 8	4K x 8	4K x 8	4K x 8
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Package / Case	100-LQFP	100-LQFP	64-LQFP	100-LQFP
Data Converters	A/D 8x10b	A/D 8x10b	A/D 6x10b	A/D 8x10b
Base Product Number	S9S12	S9S12	S9S12	S9S12
Package	Tray	Tape & Reel (TR)	Tray	Tray
Connectivity	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	CANbus, EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI	EBI/EMI, I ² C, IrDA, LINbus, SCI, SPI
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	2K x 8	4K x 8	4K x 8	4K x 8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Series	HCS12	HCS12	HCS12	HCS12
Core Processor	HCS12	HCS12	HCS12	HCS12
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Program Memory Size	32KB (32K x 8)	64KB (64K x 8)	64KB (64K x 8)	48KB (48K x 8)
Number of I/O	80	80	50	80

S9S12HY32J0MLL Datasheet PDF

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Datasheets


[MC9S12HY64 Ref Manual.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

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Recommended Products



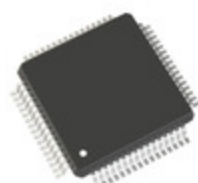
S9S12HA48CLL

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S9S12HY64J0CLLR

NXP USA Inc.
IC MCU 16BIT 64KB FLASH 100LQFP



S9S12HY64J0MLH

NXP USA Inc.
IC MCU 16BIT 64KB FLASH 64LQFP



S9S12HA48J0CLL

NXP USA Inc.
IC MCU 16BIT 48KB FLASH 100LQFP



S9S12HA32J0VLL

NXP USA Inc.
IC MCU 16BIT 32KB FLASH 100LQFP



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IC MCU 16BIT 48KB FLASH 100LQFP



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IC MCU 16BIT 32KB FLASH 100LQFP



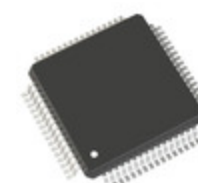
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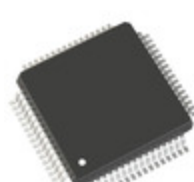
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S9S12HY32J0MLH

NXP USA Inc.
IC MCU 16BIT 32KB FLASH 64LQFP



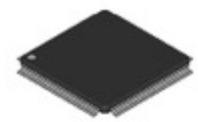
S9S12HY32J0CLH

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IC MCU 16BIT 32KB FLASH 64LQFP



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S9S12HY48J0CLL

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S9S12HY32J0VLL

NXP USA Inc.
IC MCU 16BIT 32KB FLASH 100LQFP

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

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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