



Image may be representation.
See specifications for product details.



S912XDP512F0MAG

Manufacturer Part Number	S912XDP512F0MAG
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-S912XDP512F0MAG
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16BIT 512KB FLASH 144LQFP
Package	144-LQFP
Data sheet	S912XDP512F0MAG.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

S912XDP512F0MAG - NXP USA Inc..New Original in Stock. Download Linear Technology S912XDP512F0MAG datasheet/specifications on AllelcoElec.com. Request a quote for S912XDP512F0MAG, please send us email: info@allelco.com

Specifications

S912XDP512F0MAG Tech Specifications
S912XDP512F0MAG - 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)	2.35V ~ 5.5V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	144-LQFP (20x20)	Number of I/O	119
Speed	80MHz	Mounting Type	Surface Mount
Series	HCS12X	EEPROM Size	4K x 8
RAM Size	32K x 8	Data Converters	A/D 8x10b, 16x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	512KB (512K x 8)	Core Processor	HCS12X
Peripherals	LVD, POR, PWM, WDT	Connectivity	CANbus, EBI/EMI, I ² C, SCI, SPI
Package / Case	144-LQFP	Base Product Number	S912
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. S912XDP512F0MAG

Product Attribute				
Part Number	S912XDP512F0MAG	S912XDT256F1CAL	S912XDP512F0MAL	S912XDG128F2VAA
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)
Package	Tray	Tray	Tray	Tray
Package / Case	144-LQFP	112-LQFP	112-LQFP	80-QFP
Base Product Number	S912	S912	S912	S912
Voltage - Supply (Vcc/Vdd)	2.35V ~ 5.5V	3.15V ~ 5.5V	2.35V ~ 5.5V	2.35V ~ 5.5V
Speed	80MHz	80MHz	80MHz	80MHz
Series	HCS12X	HCS12X	HCS12X	HCS12X
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Number of I/O	119	91	91	59
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Data Converters	A/D 8x10b, 16x10b	A/D 16x12b	A/D 8x10b, 16x10b	A/D 8x10b, 16x10b
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	512KB (512K x 8)	128KB (128K x 8)
Core Processor	HCS12X	HCS12X	HCS12X	HCS12X
Oscillator Type	External	External	External	External
Supplier Device Package	144-LQFP (20x20)	112-LQFP (20x20)	112-LQFP (20x20)	80-QFP (14x14)
EEPROM Size	4K x 8	4K x 8	4K x 8	2K x 8
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Connectivity	CANbus, EBI/EMI, I ² C, SCI, SPI	CANbus, I ² C, SCI, SPI	CANbus, I ² C, SCI, SPI	CANbus, I ² C, SCI, SPI
Peripherals	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT	LVD, POR, PWM, WDT
RAM Size	32K x 8	16K x 8	32K x 8	12K x 8

S912XDP512F0MAG Datasheet PDF

Download S912XDP512F0MAG pdf datasheets and NXP USA Inc. documentation for S912XDP512F0MAG - NXP USA Inc..

PCN Packaging

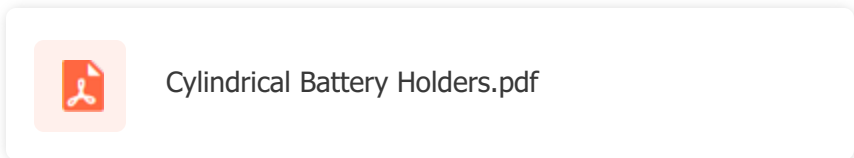
All Dev Label Update 15/Dec/2020.pdf

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

S912XDT256F1CAL NXP USA Inc. IC MCU 16BIT 256KB FLASH 112LQFP	S912XDG256CAL FSL	S912XDP512F0MAL NXP USA Inc. IC MCU 16BIT 512KB FLASH 112LQFP	S912XDG128F2VAA NXP USA Inc. IC MCU 16BIT 128KB FLASH 80QFP	S912XDG128F2MAA Freescale Semiconductor IC MCU 16BIT 128KB FLASH 80QFP	S912XDP512J1MAL NXP USA Inc. IC MCU 16BIT 512KB FLASH 112LQFP
S912XDP512J1VAGR NXP USA Inc. IC MCU 16BIT 512KB FLASH 144LQFP	S912XDG128F2MAA NXP USA Inc. IC MCU 16BIT 128KB FLASH 80QFP	S912XDQ256F1MAG NXP USA Inc. IC MCU 16BIT 256KB FLASH 144LQFP	S912XDG128F2VAA Freescale Semiconductor IC MCU 16BIT 128KB FLASH 80QFP	S912XDG128F2MAL NXP USA Inc. IC MCU 16BIT 128KB FLASH 112LQFP	S912XDQ256F1MAL NXP USA Inc. IC MCU 16BIT 256KB FLASH 112LQFP
S912XDG128F2MAL Freescale Semiconductor IC MCU 16BIT 128KB FLASH 112LQFP	S912XDG256F1CAL Freescale Semiconductor S12XD AUTOMOTIVE AND INDUSTRIAL	S912XDP512J1MAL Freescale Semiconductor IC MCU 16BIT 512KB FLASH 112LQFP	S912XDQ256F1MAL Freescale Semiconductor IC MCU 16BIT 256KB FLASH 112LQFP	S912XDT256F1CAL Freescale Semiconductor IC MCU 16BIT 256KB FLASH 112LQFP	S912XDG128F2CAL NXP USA Inc. IC MCU 16BIT 128KB FLASH 112LQFP

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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Contact us

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