

Image may be representation.
See specifications for product details.



MKW21D512VHA5

Manufacturer Part Number	MKW21D512VHA5
Manufacturer	NXP Semiconductors
Allelco Part Number	32D-MKW21D512VHA5
ECAD Model	Request Free CAD Models
Parts Description	IC RF TXRX+MCU 802.15.4 63VFLGA
Package	63-VFLGA
Data sheet	MKW21D512VHA5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

MKW21D512VHA5 - NXP USA Inc..New Original in Stock. Download Linear Technology MKW21D512VHA5 datasheet/specifications on AllelcoElec.com.
Request a quote for MKW21D512VHA5, please send us email: info@allelco.com

Specifications

MKW21D512VHA5 Tech Specifications

MKW21D512VHA5 - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Package	Tray
Voltage - Supply	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 105°C
Type	TxRx + MCU	Mounting Type	Surface Mount
Supplier Device Package	63-MAPLGA (8x8)	Modulation	DSSS, O-QPSK
Series	-	Memory Size	512kB Flash, 64kB SRAM
Serial Interfaces	I ² C, JTAG, SPI, UART	GPIO	2
Sensitivity	-102dBm	Frequency	2.4GHz
RF Family/Standard	802.15.4	Data Rate (Max)	250kbps
Protocol	Zigbee®	Current - Transmitting	19mA
Power - Output	8dBm	Current - Receiving	15mA
Package / Case	63-VFLGA	Base Product Number	MKW21

Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MKW21D512VHA5

Product Attribute				
Part Number	MKW21D512VHA5	MKW31Z512CAT4R	MKW30Z160VHM4	MKW21D256VHA5
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Current - Receiving	15mA	6.76mA	6.5mA ~ 15.4mA	15mA
RF Family/Standard	802.15.4	Bluetooth	Bluetooth	802.15.4
Operating Temperature	-40°C ~ 105°C	-40°C ~ 105°C (TA)	-40°C ~ 85°C	-40°C ~ 105°C
Supplier Device Package	63-MAPLGA (8x8)	75-WLCSP (3.89x3.8)	32-QFN (5x5)	63-MAPLGA (8x8)
Frequency	2.4GHz	2.36GHz ~ 2.48GHz	2.4GHz	2.4GHz
Base Product Number	MKW21	MKW31	MKW30	MKW21
Memory Size	512kB Flash, 64kB SRAM	512kB Flash, 128kB RAM	160kB Flash, 20kB SRAM	256kB Flash, 32kB SRAM
Sensitivity	-102dBm	-95dBm	-91dBm	-102dBm
Data Rate (Max)	250kbps	1Mbps	1Mbps	250kbps
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Serial Interfaces	I ² C, JTAG, SPI, UART	I ² C, SPI, UART	I ² C, SPI, UART	I ² C, JTAG, SPI, UART
Package	Tray	Tape & Reel (TR)	Tray	Tray
Series	-	Kinetis KW31Z	-	-
Modulation	DSSS, O-QPSK	FSK, GFSK, MSK, O-QPSK	GFSK	DSSS, O-QPSK
Protocol	Zigbee®	Bluetooth v4.2	Bluetooth v4.1	Zigbee®
Current - Transmitting	19mA	6.08mA	8.4mA ~ 18.5mA	19mA
Package / Case	63-VFLGA	75-UFBGA, WLCSP	32-VFQFN Exposed Pad	63-VFLGA
Type	TxRx + MCU	TxRx + MCU	TxRx + MCU	TxRx + MCU
Voltage - Supply	1.8V ~ 3.6V	1.71V ~ 3.6V	1.45V ~ 3.6V	1.8V ~ 3.6V
Power - Output	8dBm	3.5dBm	5dBm	8dBm
GPIO	2	-	15	2

MKW21D512VHA5 Datasheet PDF

Download MKW21D512VHA5 pdf datasheets and NXP USA Inc. documentation for MKW21D512VHA5 - 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

PCN Assembly/Origin






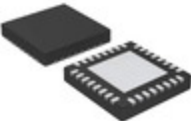
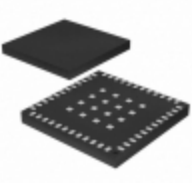









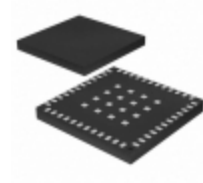

 2.73KHz.pdf

PCN Design/Specification

 MKW2xD 14/Jun/2016.pdf

Customers Also Interested in

Recommended Products

					
MKW31Z512CAT4R	MKW30Z160VHM4	MKW21D256VHA5	MKW1044	MKW1046	MKW30Z160VHM4R
NXP USA Inc. IC RF TXRX+MCU 802.15.4 75UFBGA	NXP USA Inc. IC RF TXRX+MCU BLUETOOTH 32VFQFN	NXP USA Inc. IC RF TXRX+MCU 802.15.4 63VFLGA	MINMAX IGBT Module	MINMAX IGBT Module	NXP USA Inc. IC RF TXRX+MCU BLUETOOTH 32VFQFN
					
MKW31Z2256VHT4	MKW3036	MKW1043	MKW1034	MKW22D512VHA5	MKW31Z2256VHT4
NXP USA Inc. IC RF TXRX+MCU BLUETOOTH 48VFQFN	MINMAX IGBT Module	MINMAX IGBT Module	MINMAX IGBT Module	NXP USA Inc. IC RF TXRX+MCU 802.15.4 63VFLGA	Freescale Semiconductor KINETIS KW31Z: BLE 4.2 WIRELESS
					
MKW1037	MKW1041	MKW21Z2256VHT4	MKW30Z160VHM4	MKW21Z2256VHT4	MKW1042
MINMAX IGBT Module	MINMAX IGBT Module	Freescale Semiconductor KINETIS KW21Z: 802.15.4 WIRELESS	Freescale Semiconductor KINETIS KW30Z-2.4 GHZ BLUETOOTH	NXP USA Inc. IC RF TXRX+MCU 802.15.4 48VFQFN	MINMAX IGBT Module

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.



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Contact us if you have any questions.

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