



Image may be representation.  
See specifications for product details.



## LPC54605J512BD100K

Manufacturer Part Number	<b>LPC54605J512BD100K</b>
Manufacturer	<b>NXP Semiconductors</b>
Allelco Part Number	32D-LPC54605J512BD100K
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT 512KB FLASH 100LQFP
Package	100-LQFP
Data sheet	<a href="#">LPC546xx Datasheet.pdf</a> <a href="#">LPC546xx Datasheet.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

LPC54605J512BD100K - NXP USA Inc..New Original in Stock. Download Linear Technology LPC54605J512BD100K datasheet/specifications on AllelcoElec.com.  
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## Specifications

LPC54605J512BD100K Tech Specifications

LPC54605J512BD100K - 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)	1.71V ~ 3.6V	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package	100-LQFP (14x14)	Number of I/O	64
Speed	180MHz	Mounting Type	Surface Mount
Series	LPC546xx	EEPROM Size	16K x 8
RAM Size	200K x 8	Data Converters	A/D 12x12b SAR
Program Memory Type	FLASH	Core Size	32-Bit Single-Core
Program Memory Size	512KB (512K x 8)	Core Processor	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Connectivity	I²C, SPI, UART/USART, USB
Package / Case	100-LQFP	Base Product Number	LPC54605
Package	Tray		

## Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. LPC54605J512BD100K

Product Attribute				
Part Number	LPC54605J512BD100K	<a href="#">LPC54113J256BD64QL</a>	<a href="#">LPC54605J256ET180E</a>	<a href="#">LPC54605J512BD100E</a>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Speed	180MHz	100MHz	180MHz	180MHz
Program Memory Size	512KB (512K x 8)	256KB (256K x 8)	256KB (256K x 8)	512KB (512K x 8)
EEPROM Size	16K x 8	-	16K x 8	16K x 8
Data Converters	A/D 12x12b SAR	A/D 12x12b	A/D 12x12b	A/D 12x12b
Supplier Device Package	100-LQFP (14x14)	64-LQFP (10x10)	180-TFBGA (12x12)	100-LQFP (14x14)
Number of I/O	64	48	145	64
RAM Size	200K x 8	192K x 8	136K x 8	200K x 8
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
Series	LPC546xx	LPC54100	LPC546xx	LPC546xx
Operating Temperature	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)	-40°C ~ 105°C (TA)
Core Processor	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4	ARM® Cortex®-M4
Peripherals	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT	Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V	1.62V ~ 3.6V	1.71V ~ 3.6V	1.71V ~ 3.6V
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tray	Tray	Tray	Tray
Package / Case	100-LQFP	64-LQFP	180-TFBGA	100-LQFP
Connectivity	I²C, SPI, UART/USART, USB	I²C, SPI, UART/USART, USB	I²C, SPI, UART/USART, USB	I²C, SPI, UART/USART, USB
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	LPC54605	LPC54113	LPC54605	LPC54605
Program Memory Type	FLASH	FLASH	FLASH	FLASH

## LPC54605J512BD100K Datasheet PDF


Download LPC54605J512BD100K pdf datasheets and NXP USA Inc. documentation for LPC54605J512BD100K - NXP USA Inc..

### Datasheets

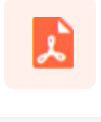
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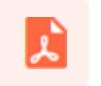
### Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

## PCN Packaging

 Mult Dev Pkg Seal 15/Dec/2020.pdf

 LPCx/PRH601HLx/PXAH30KFBEx 01/Jun/2022.pdf

## HTML Datasheet

 LPC546xx Datasheet.pdf

## Customers Also Interested in

### Recommended Products



**LPC54113J256BD64QL**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 64LQFP



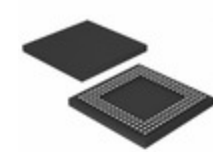
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Freescale / NXP Semiconductors



**LPC54114J256BD64**  
Freescale / NXP Semiconductors



**LPC54605J512ET180**  
Freescale / NXP Semiconductors



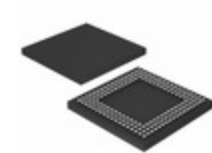
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NXP USA Inc.  
IC MCU 32BIT 256KB FLSH 180TFBGA



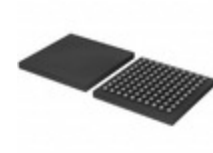
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NXP USA Inc.  
IC MCU 32BIT 512KB FLASH 100LQFP



**LPC54605J512BD100**  
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**LPC54605J512ET180E**  
NXP USA Inc.  
IC MCU 32BIT 512KB FLSH 180TFBGA



**LPC54605J512ET100E**  
NXP USA Inc.  
IC MCU 32BIT 512KB FLSH 100TFBGA



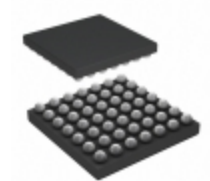
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NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 100LQFP



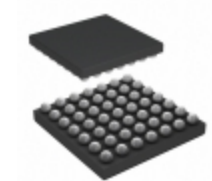
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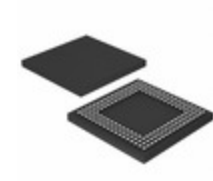
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NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 64LQFP



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NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 49WLCSF



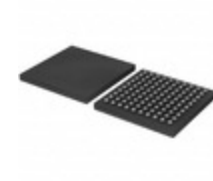
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**LPC54606J256ET180E**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLSH 180TFBGA



**LPC54606J256BD100K**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLASH 100LQFP



**LPC54606J256ET100E**  
NXP USA Inc.  
IC MCU 32BIT 256KB FLSH 100TFBGA



**LPC54606J256ET180**  
Freescale / NXP Semiconductors

## 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

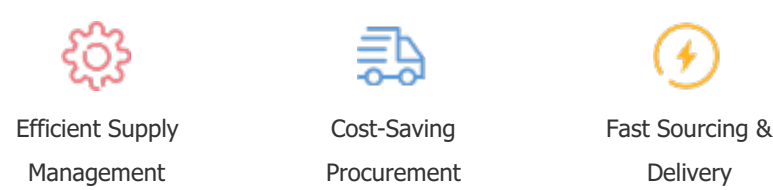
**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

### Payment Support

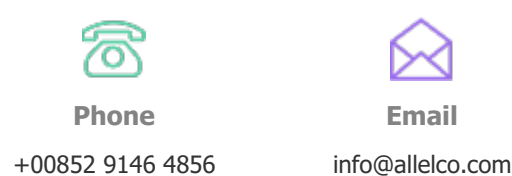
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



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