

LPC54605J256BD100E



Part Number: [LPC54605J256BD100E](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: 32-BIT ARM CORTEX-M4

Data sheet:  [LPC546xx User Manual](#)  
 [LPC546xx Datasheet](#)  
 [LPC546xx MCU Family Fact Sheet](#)  
 [LPC546xx Errata](#)

RoHs Status: Lead free / RoHS Compliant

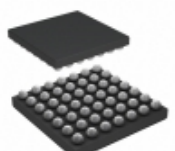
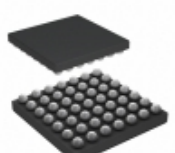
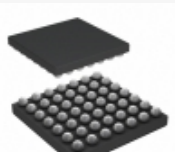
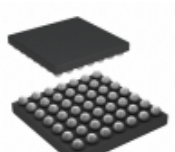
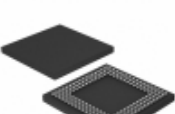
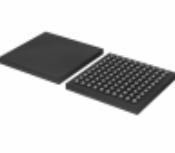
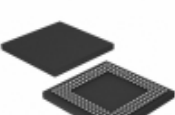
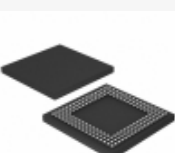
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                |                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                   | LPC54605J256BD100E                        | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32-BIT ARM CORTEX-M4                      | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                            | 18743 pcs                                 | Data sheet                     | <a href="#">LPC546xx User Manual</a><br><a href="#">LPC546xx Datasheet</a><br><a href="#">LPC546xx MCU Family Fact Sheet</a><br><a href="#">LPC546xx Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.71 V ~ 3.6 V                                                                                                                                                  |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180MHz                                    | Series                         | LPC546xx                                                                                                                                                        |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                      | 136K x 8                                  | Program Memory Type            | FLASH                                                                                                                                                           |
| Program Memory Size                                                                                                                                                                                                                                                                                                                                                                                                                           | 256KB (256K x 8)                          | Peripherals                    | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT                                                                                                    |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                                   | 935357965551                              | Oscillator Type                | Internal                                                                                                                                                        |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 105°C (TA)                        | Number of I/O                  | 64                                                                                                                                                              |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                              | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                      |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16K x 8                                   | Detailed Description           | ARM® Cortex®-M4 LPC546xx Microcontroller IC 32-Bit 180MHz 256KB (256K x 8) FLASH                                                                                |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 12x12b                                | Core Size                      | 32-Bit                                                                                                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                | ARM® Cortex®-M4                           | Connectivity                   | I <sup>2</sup> C, SPI, UART/USART, USB                                                                                                                          |
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|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">LPC54102J512UK49Z</a><br>Description: IC MCU 32BIT 512KB FLASH 49WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54102J512BD64QL</a><br>Description: IC MCU 32BIT 512KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54605J512ET100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54113J256UK49Z</a><br>Description: IC MCU 32BIT 256KB FLASH 49WLCSP  | Manufacturers: <a href="#">NXP USA Inc.</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54113J256BD64QL</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54102J256UK49Z</a><br>Description: IC MCU 32BIT 256KB FLASH 49WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54101J512UK49Z</a><br>Description: IC MCU 32BIT 512KB FLASH 49WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54113J128BD64QL</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54605J256ET180E</a><br>Description: IC MCU 32BIT 256KB FLASH 180BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54606J256ET100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54605J512ET180E</a><br>Description: IC MCU 32BIT 512KB FLASH 180BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54102J256BD64QL</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54605J256ET100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54114J256BD64QL</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54606J512BD100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54605J512BD100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54606J256BD100E</a><br>Description: 32-BIT ARM CORTEX-M4             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54114J256UK49Z</a><br>Description: IC MCU 32BIT 256KB FLASH 49WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54606J512BD208E</a><br>Description: IC MCU 32BIT 512KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC54606J256ET180E</a><br>Description: IC MCU 32BIT 256KB FLASH 180BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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