

LPC1810FBD144,551



Part Number: [LPC1810FBD144,551](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT ROMLESS 144LQFP

Data sheet:  [LPC18xx User Manual](#)  
 [LPC1850,30,20,10 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

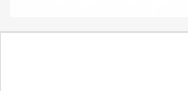
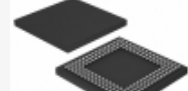
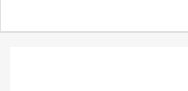
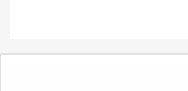
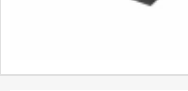
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                                  |                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LPC1810FBD144,551                                                                 | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 32BIT ROMLESS 144LQFP                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14885 pcs                                                                         | Data sheet                       | <a href="#">LPC18xx User Manual</a><br><a href="#">LPC1850,30,20,10 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a>                                         | Voltage - Supply (Vcc/Vdd)       | 2.2 V ~ 3.6 V                                                                     |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 144-LQFP (20x20)                                                                  | Speed                            | 180MHz                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LPC18xx                                                                           | RAM Size                         | 136K x 8                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ROMless                                                                           | Program Memory Size              | -                                                                                 |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT                      | Packaging                        | Tray                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 144-LQFP                                                                          | Other Names                      | 935296953551                                                                      |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal                                                                          | Operating Temperature            | -40°C ~ 85°C (TA)                                                                 |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 83                                                                                | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                     |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lead free / RoHS Compliant                                                        | EEPROM Size                      | -                                                                                 |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ARM® Cortex®-M3 LPC18xx Microcontroller IC 32-Bit 180MHz ROMless 144-LQFP (20x20) | Data Converters                  | A/D 8x10b; D/A 1x10b                                                              |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32-Bit                                                                            | Core Processor                   | ARM® Cortex®-M3                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, Microwire, SD, SPI, SSI, SSP, UART/USART | Base Part Number                 | LPC1810                                                                           |
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|  | Part#: <a href="#">LPC1810FET100,551</a><br>Description: IC MCU 32BIT ROMLESS 100TFBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1778FET208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">LPC17KM99-BTLR</a><br>Description: EC FAN 162X55MM 90-264VAC           | Manufacturers: <a href="#">Mechatronics</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1812JBD144E</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1820FBD144,551</a><br>Description: IC MCU 32BIT ROMLESS 144LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1787FBD208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1788FBD208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1788FET180,551</a><br>Description: IC MCU 32BIT 512KB FLASH 180BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1788FET208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1786FBD208,551</a><br>Description: IC MCU 32BIT 256KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1785FBD208K</a><br>Description: IC MCU 32BIT 256KB FLASH 208LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1788FBD144,551</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1812JET100E</a><br>Description: IC MCU 32BIT 512KB FLSh 100TFBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1817JET100E</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1813JBD144E</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1813JET100E</a><br>Description: IC MCU 32BIT 512KB FLSh 100TFBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1815JET100E</a><br>Description: IC MCU 32BIT 768KB FLSh 100TFBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1817JBD144E</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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