

LPC1778FBD144,551



Part Number: [LPC1778FBD144,551](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:  [LPC177x/LPC178x Leaflet](#)  
 [LPC178X,177X](#)

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

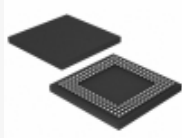
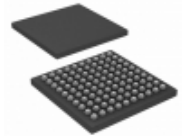
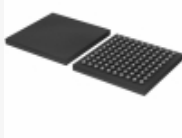
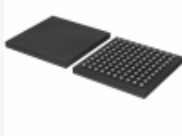
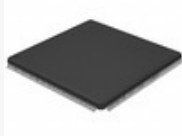
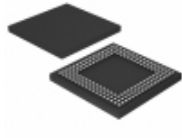
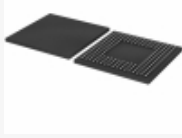
Shipment Way: DHL/Fedex/TNT/UPS/EMS

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See Product Specifications for product details.  
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| PRODUCT PARAMETER               |                                                                                 |                                  |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------|
| Part Number                     | LPC1778FBD144,551                                                               | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                          |
| Description                     | IC MCU 32BIT 512KB FLASH 144LQFP                                                | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                              |
| Quantity Available              | 15918 pcs                                                                       | Data sheet                       | <a href="#">LPC177x/LPC178x Leaflet</a><br><a href="#">LPC178X,177X</a>                                 |
| Category                        | <a href="#">Integrated Circuits (ICs)</a>                                       | Voltage - Supply (Vcc/Vdd)       | 2.4 V ~ 3.6 V                                                                                           |
| Supplier Device Package         | 144-LQFP (20x20)                                                                | Speed                            | 120MHz                                                                                                  |
| Series                          | LPC17xx                                                                         | RAM Size                         | 96K x 8                                                                                                 |
| Program Memory Type             | FLASH                                                                           | Program Memory Size              | 512KB (512K x 8)                                                                                        |
| Peripherals                     | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, Motor Control PWM, POR, PWM, WDT | Packaging                        | Tray                                                                                                    |
| Package / Case                  | 144-LQFP                                                                        | Other Names                      | 568-7571<br>935291591551<br>LPC1778FBD144,551-ND                                                        |
| Oscillator Type                 | Internal                                                                        | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                       |
| Number of I/O                   | 109                                                                             | Moisture Sensitivity Level (MSL) | 2 (1 Year)                                                                                              |
| Manufacturer Standard Lead Time | 12 Weeks                                                                        | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                              |
| EEPROM Size                     | 4K x 8                                                                          | Detailed Description             | ARM® Cortex®-M3 LPC17xx Microcontroller IC 32-Bit 120MHz 512KB (512K x 8) FLASH 144-LQFP (20x20)        |
| Data Converters                 | A/D 8x12b, D/A 1x10b                                                            | Core Size                        | 32-Bit                                                                                                  |
| Core Processor                  | ARM® Cortex®-M3                                                                 | Connectivity                     | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, Microwire, Memory Card, SPI, SSI, SSP, UART/USART, USB OTG |
| Base Part Number                | LPC1778                                                                         |                                  |                                                                                                         |

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|  | Part#: <a href="#">LPC1778FET180,551</a><br>Description: IC MCU 32BIT 512KB FLASH 180BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1768UKZ</a><br>Description: IC MCU 32BIT 512KB FLASH 100CSP         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1768FET100Z</a><br>Description: 512KB FLASH, 64KB SRAM, ETHERNET    | 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="#">LPC1768UKJ</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1776FBD208,551</a><br>Description: IC MCU 32BIT 256KB FLASH 208LQFP | 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="#">LPC1776FET180,551</a><br>Description: IC MCU 32BIT 256KB FLASH 180BGA  | 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="#">LPC1777FBD208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1785FBD208,551</a><br>Description: IC MCU 32BIT 256KB FLASH 208LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1769FBD100,551</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1768FET100Y</a><br>Description: IC MCU 32BIT 512KB FLASH 100TBGA    | 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="#">LPC1774FBD144,551</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">LPC1778FBD208,551</a><br>Description: IC MCU 32BIT 512KB FLASH 208LQFP | 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> |
|  | Part#: <a href="#">LPC1774FBD208,551</a><br>Description: IC MCU 32BIT 128KB 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> |

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