

MKL15Z128VLK4



**Part Number:** [MKL15Z128VLK4](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MCU 32BIT 128KB FLASH 80LQFP

**Data sheet:**  [KL15 Sub-Family Manual](#)  
 [KL14,KL15 Product Brief](#)  
 [KL1x MCU Family Fact Sheet](#)  
 [KL15\\_VFM/T,VLH/K4 Datasheet](#)

**RoHs Status:** Lead free / RoHS Compliant

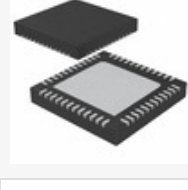
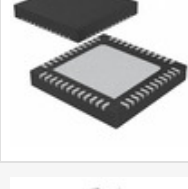
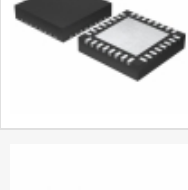
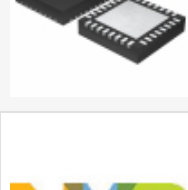
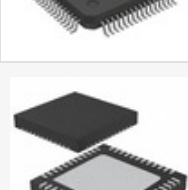
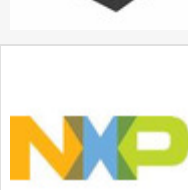
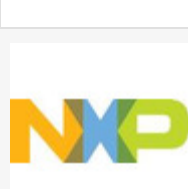
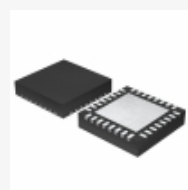
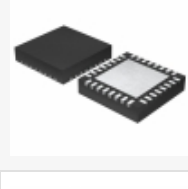
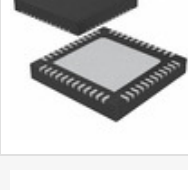
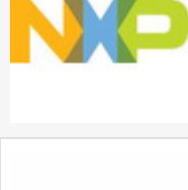
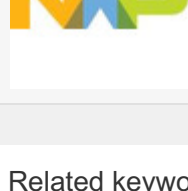
**Ship From:** Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |                                  |                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MKL15Z128VLK4                                   | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 128KB FLASH 80LQFP                 | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14356 pcs                                       | Data sheet                       | <a href="#">KL15 Sub-Family Manual</a><br><a href="#">KL14,KL15 Product Brief</a><br><a href="#">KL1x MCU Family Fact Sheet</a><br><a href="#">KL15_VFM/T,VLH/K4 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>       | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 80-LQFP (12x12)                                 | Speed                            | 48MHz                                                                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis KL1                                     | RAM Size                         | 16K x 8                                                                                                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                           | Program Memory Size              | 128KB (128K x 8)                                                                                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 80-LQFP                                         | Other Names                      | 935324609557                                                                                                                                                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                        | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                                                                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70                                              | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                  |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13 Weeks                                        | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                     |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                               | Detailed Description             | ARM® Cortex®-M0+ Kinetis KL1 Microcontroller IC 32-Bit 48MHz 128KB (128K x 8) FLASH 80-LQFP (12x12)                                                                            |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 16x16b, D/A 1x12b                           | Core Size                        | 32-Bit                                                                                                                                                                         |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM® Cortex®-M0+                                | Connectivity                     | I²C, LINbus, SPI, TSI, UART/USART                                                                                                                                              |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MKL15Z128                                       |                                  |                                                                                                                                                                                |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MKL15Z128VLH4R</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL14Z64VFT4R</a><br>Description: KINETIS KL14: 48MHZ CORTEX-M0+ U  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z64VFT4</a><br>Description: IC MCU 32BIT 64KB FLASH 48QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL14Z64VLH4</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z32VFM4R</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z64VFM4R</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL14Z64VLK4</a><br>Description: IC MCU 32BIT 64KB FLASH 80LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128VLH4</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z32VLH4</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128VFT4</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128VLK4R</a><br>Description: KINETIS KL15: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128VFM4R</a><br>Description: KINETIS KL15: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z64VLH4</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128VFM4</a><br>Description: IC MCU 32BIT 128KB FLASH 32QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL15Z128CAD4R</a><br>Description: IC MCU 32BIT 128KB FLASH 35WLCSP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MKL15Z32VFT4</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MKL15Z32VFM4</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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