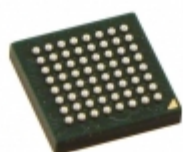


MKL17Z256VMP4



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MKL17Z256VMP4](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 64BGA

**Data sheet:**  [KL17 Sub-Family Ref Manual](#)  
 [KLx7 Prod Brief](#)  
 [KL17 Datasheet](#)

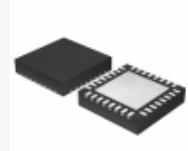
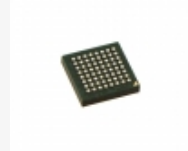
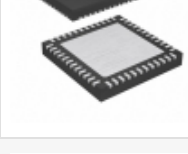
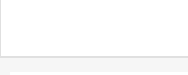
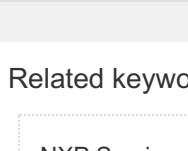
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                   |                                  |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MKL17Z256VMP4                                                     | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 256KB FLASH 64BGA                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20857 pcs                                                         | Data sheet                       | <a href="#">KL17 Sub-Family Ref Manual</a><br><a href="#">KLx7 Prod Brief</a><br><a href="#">KL17 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                         | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-MAPBGA (5x5)                                                   | Speed                            | 48MHz                                                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis KL1                                                       | RAM Size                         | 32K x 8                                                                                                         |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                             | Program Memory Size              | 256KB (256K x 8)                                                                                                |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-LFBGA                                                          | Other Names                      | 935316113557                                                                                                    |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                          | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                              |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54                                                                | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                   |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16 Weeks                                                          | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                      |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                                                 | Detailed Description             | ARM® Cortex®-M0+ Kinetis KL1 Microcontroller IC 32-Bit 48MHz 256KB (256K x 8) FLASH 64-MAPBGA (5x5)             |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 20x16b, D/A 1x12b                                             | Core Size                        | 32-Bit                                                                                                          |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM® Cortex®-M0+                                                  | Connectivity                     | I <sup>2</sup> C, LINbus, SPI, UART/USART                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MKL17Z256CAL4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z32VFM4</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z32VDA4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z128VMP4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VFM4</a><br>Description: IC MCU 32BIT 256KB FLASH 32QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z64VFM4R</a><br>Description: KINETIS L 32-BIT MCU ARM CORTEX   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VFT4</a><br>Description: IC MCU 32BIT 256KB FLASH 48QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z64VFM4</a><br>Description: IC MCU 32BIT 64KB FLASH 32QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z32VFM4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z64VDA4</a><br>Description: IC MCU 32BIT 64KB FLASH 36XFBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VMP4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VFT4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z64VDA4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VLH4R</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z32VDA4</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z128VLH4</a><br>Description: KINETIS KL17: 48MHZ CORTEX-M0+ U  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MKL17Z256VLH4</a><br>Description: IC MCU 32BIT 256KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MKL17Z32VLH4</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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