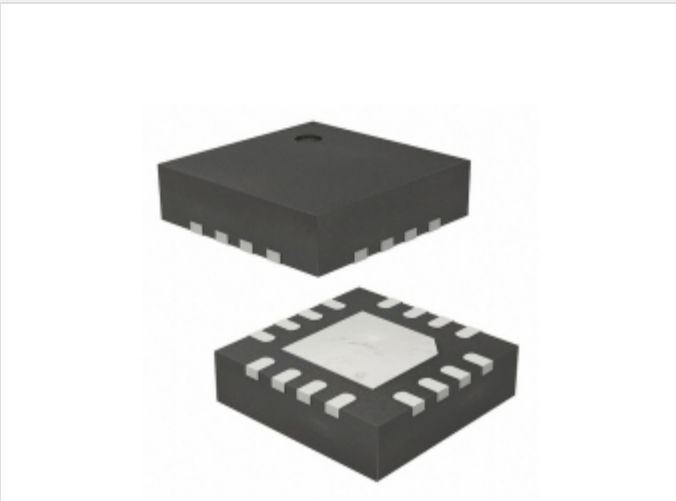


MKL02Z8VFG4



Part Number: [MKL02Z8VFG4](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 8KB FLASH 16QFN

Data sheet: [PDF KL04,KL05 Product Brief](#)  
[PDF KL02 Family Factsheet](#)  
[PDF KL02 Sub-Family](#)

RoHs Status: Lead free / RoHS Compliant

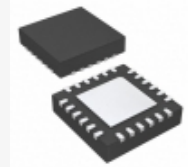
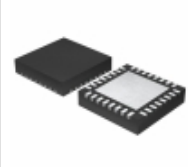
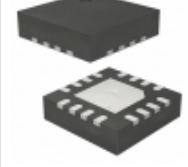
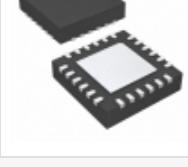
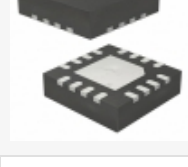
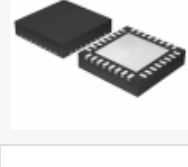
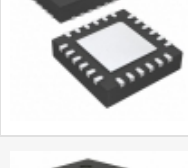
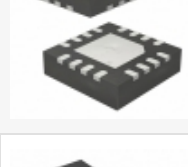
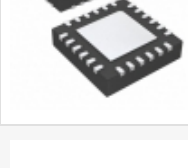
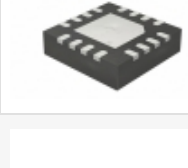
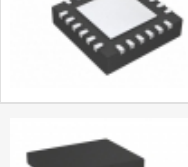
Ship From: Hong Kong

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

Images are for reference only.  
See Product Specifications for product details.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                  |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MKL02Z8VFG4                                | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MCU 32BIT 8KB FLASH 16QFN               | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 51828 pcs                                  | Data sheet                       | <a href="#">KL04,KL05 Product Brief</a><br><a href="#">KL02 Family Factsheet</a><br><a href="#">KL02 Sub-Family</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a>  | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16-QFN (3x3)                               | Speed                            | 48MHz                                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Kinetis KL02                               | RAM Size                         | 1K x 8                                                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FLASH                                      | Program Memory Size              | 8KB (8K x 8)                                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Brown-out Detect/Reset, LVD, POR, PWM, WDT | Packaging                        | Tray                                                                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16-WFQFN Exposed Pad                       | Other Names                      | 935314892557                                                                                                        |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Internal                                   | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14                                         | 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 KL02 Microcontroller IC 32-Bit 48MHz 8KB (8K x 8) FLASH 16-QFN (3x3)                       |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A/D 6x12b                                  | Core Size                        | 32-Bit                                                                                                              |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ARM® Cortex®-M0+                           | Connectivity                     | I²C, SPI, UART/USART                                                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MKL02Z8                                    |                                  |                                                                                                                     |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                               |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MKL03Z32CAF4R</a><br>Description: IC MCU 32BIT 32KB FLASH 20WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFK4</a><br>Description: IC MCU 32BIT 32KB FLASH 24QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z16VFM4</a><br>Description: IC MCU 32BIT 16KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32CAF4R</a><br>Description: IC MCU 32BIT 32KB FLASH 20WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z32VFG4</a><br>Description: IC MCU 32BIT 32KB FLASH 16QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFM4R</a><br>Description: KINETIS KL02: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z8VFG4R</a><br>Description: IC MCU 32BIT 8KB FLASH 16QFN      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFG4R</a><br>Description: IC MCU 32BIT 32KB FLASH 16QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z16VFK4</a><br>Description: IC MCU 32BIT 16KB FLASH 24QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z16VFG4</a><br>Description: IC MCU 32BIT 16KB FLASH 16QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z16VFK4R</a><br>Description: KINETIS KL03: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFM4</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFK4R</a><br>Description: IC MCU 32BIT 32KB FLASH 24QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z32VFG4</a><br>Description: IC MCU 32BIT 32KB FLASH 16QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z32VFK4</a><br>Description: IC MCU 32BIT 32KB FLASH 24QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z32VFG4R</a><br>Description: KINETIS KL03: 48MHZ CORTEX-M0+ U | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL02Z16VFG4R</a><br>Description: IC MCU 32BIT 16KB FLASH 16QFN    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MKL03Z16VFG4R</a><br>Description: KINETIS L 32-BIT MCU ARM CORTEX  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MKL03Z32CBF4R</a><br>Description: IC MCU 32BIT 32KB FLASH 20WLCSP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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