

MK28FN2M0CAU15R



**Part Number:** [MK28FN2M0CAU15R](#)

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

**Description:** IC MCU 32BIT 2MB FLASH 210WLCSP

**Data sheet:**  [MK28FN2M0VMI15, MK28FN2M0CAU15R](#)  
 [K28F MCU Sub-Family Reference Manual](#)  
 [Errata for Mask 2N96T](#)  
 [K2x USB MCU Family Fact Sheet](#)  
 [K Series MCUs Selector Guide](#)

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

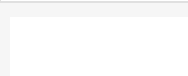
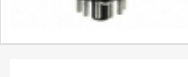
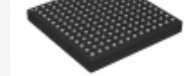
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                               | MK28FN2M0CAU15R                           | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                                                                    |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 2MB FLASH 210WLCSP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                        | 5759 pcs                                  | Data sheet                     | <a href="#">MK28FN2M0VMI15, MK28FN2M0CAU15R</a><br><a href="#">K28F MCU Sub-Family Reference Manual</a><br><a href="#">Errata for Mask 2N96T</a><br><a href="#">K2x USB MCU Family Fact Sheet</a><br><a href="#">K Series MCUs Selector Guide</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.71 V ~ 3.6 V                                                                                                                                                                                                                                    |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150MHz                                    | Series                         | Kinetis K28F                                                                                                                                                                                                                                      |
| RAM Size                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1M x 8                                    | Program Memory Type            | FLASH                                                                                                                                                                                                                                             |
| Program Memory Size                                                                                                                                                                                                                                                                                                                                                                                                                       | 2MB (2M x 8)                              | Peripherals                    | DMA, I <sup>2</sup> S, PWM, WDT                                                                                                                                                                                                                   |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                               | 935339339058                              | Oscillator Type                | Internal/External                                                                                                                                                                                                                                 |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                     | -40°C ~ 85°C (TA)                         | Number of I/O                  | 120                                                                                                                                                                                                                                               |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                          | 1 (Unlimited)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                         | Detailed Description           | ARM® Cortex®-M4 Kinetis K28F Microcontroller IC 32-Bit 150MHz 2MB (2M x 8) FLASH                                                                                                                                                                  |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                           | A/D 16b SAR, D/A 2x6b, 1x12b              | Core Size                      | 32-Bit                                                                                                                                                                                                                                            |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-M4                           | Connectivity                   | EBI/EMI, I <sup>2</sup> C, QSPI, SDHC, SPI, UART/USART, USB                                                                                                                                                                                       |
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|  | Part#: <a href="#">MK2KP DC24</a><br>Description: RELAY GEN PURPOSE DPDT 5A 24V        | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28FN2M0AVMI15</a><br>Description: 150MHZ ARM CORTEX 1.3           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2803FE-R52</a><br>Description: RES 280K OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP-UA-AC120</a><br>Description: RELAY GEN PURPOSE DPDT 5A 120V   | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP DC125</a><br>Description: RELAY GEN PURPOSE DPDT 5A 125V      | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP-UA-AC220</a><br>Description: RELAY GEN PURPOSE DPDT 5A 220V   | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28FN2M0VMI15</a><br>Description: IC MCU 32BIT 2MB FLASH 169MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP AC12</a><br>Description: RELAY GEN PURPOSE DPDT 5A 12V        | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2801FE-R52</a><br>Description: RES 2.8K OHM 1/4W 1% AXIAL         | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK27FN2M0AVMI15</a><br>Description: 150MHZ ARM CORTEX 1.3           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2802FE-R52</a><br>Description: RES 28K OHM 1/4W 1% AXIAL          | Manufacturers: <a href="#">Ohmite</a>                         | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28FN2M0ACAU15R</a><br>Description: 150MHZ ARM CORTEX-M4F          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK27FN2M0VMI15</a><br>Description: IC MCU 32BIT 2MB FLASH 169MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28-1A-500W</a><br>Description: SENSOR REED SW SPST WIRE LEADS     | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP DC6</a><br>Description: RELAY GENERAL PURPOSE DPDT 5A 6V      | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28-1B-500W</a><br>Description: SENSOR REED SW SPST WIRE LEADS     | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP AC24</a><br>Description: RELAY GEN PURPOSE DPDT 5A 24V        | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK2KP AC120</a><br>Description: RELAY GEN PURPOSE DPDT 5A 120V      | Manufacturers: <a href="#">Omron Automation &amp; Safety</a>  | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MK28-1C-500W</a><br>Description: SENSOR REED SW SPDT WIRE LEADS     | Manufacturers: <a href="#">Standex-Meder Electronics</a>      | <a href="#">RFQ</a> |

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