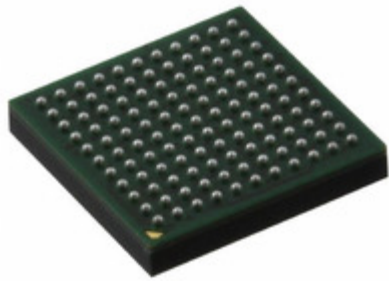


MK80FN256VDC15



Part Number: [MK80FN256VDC15](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 256KB FLASH 121XBGA

Data sheet:  [MK80FN256 Family](#)

RoHS Status: Lead free / RoHS Compliant

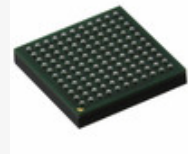
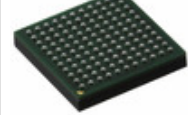
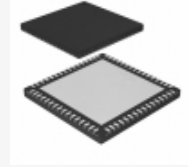
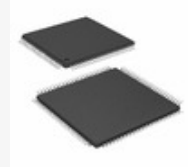
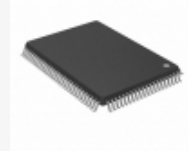
Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                     |                                  |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MK80FN256VDC15                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 256KB FLASH 121XBGA                                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13143 pcs                                                                                           | Data sheet                       | <a href="#">MK80FN256 Family</a>               |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                           | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 121-XFBGA (8x8)                                                                                     | Speed                            | 150MHz                                         |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K8x                                                                                         | RAM Size                         | 256K x 8                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                               | Program Memory Size              | 256KB (256K x 8)                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DMA, I <sup>2</sup> S, LVD, POR, PWM                                                                | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 121-XFBGA                                                                                           | Other Names                      | 568-14173<br>935318696557<br>MK80FN256VDC15-ND |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal                                                                                            | Operating Temperature            | -40°C ~ 105°C (TA)                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87                                                                                                  | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                                          | EEPROM Size                      | -                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M4 Kinetis K8x Microcontroller IC 32-Bit 150MHz 256KB (256K x 8) FLASH 121-XFBGA (8x8) | Data Converters                  | A/D 1x16b, D/A 2x6b, 1x12b                     |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                              | Core Processor                   | ARM® Cortex®-M4                                |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EBI/EMI, I <sup>2</sup> C, SPI, UART/USART, USB OTG                                                 |                                  |                                                |
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|  | Part#: <a href="#">MK82FN256VLL15</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2C18H0AGV2000A</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP        | Manufacturers: <a href="#">Cypress Semiconductor</a>                           | <div>RFQ</div> |
|  | Part#: <a href="#">XMC1202T028X0016AAXUMA1</a><br>Description: IC MCU 32BIT 16KB FLASH 28TSSOP | Manufacturers: <a href="#">International Rectifier (Infineon Technologies)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK81FN256VDC15</a><br>Description: IC MCU 32BIT 256KB FLASH 121BGA          | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">MK82FN256VDC15</a><br>Description: IC MCU 32BIT 256KB FLASH 121XBGA         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">LM3S1918-EQC50-A2</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP      | Manufacturers: <a href="#">N/A</a>                                             | <div>RFQ</div> |
|  | Part#: <a href="#">LM3S9792-IBZ80-C1T</a><br>Description: IC MCU 32BIT 128KB FLASH 108BGA      | Manufacturers: <a href="#">N/A</a>                                             | <div>RFQ</div> |
|  | Part#: <a href="#">AT90CAN128-16MU</a><br>Description: IC MCU 8BIT 128KB FLASH 64QFN           | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">ST7FMC1K2T3</a><br>Description: IC MCU 8BIT 8KB FLASH 32LQFP                | Manufacturers: <a href="#">STMicroelectronics</a>                              | <div>RFQ</div> |
|  | Part#: <a href="#">MK80FN256VLL15</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">LM3S1B21-IBZ80-C5T</a><br>Description: IC MCU 32BIT 256KB FLASH 108BGA      | Manufacturers: <a href="#">N/A</a>                                             | <div>RFQ</div> |
|  | Part#: <a href="#">PIC24FJ128GA110T-I/PF</a><br>Description: IC MCU 16BIT 128KB FLASH 100TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC33CH64MP508-I/PT</a><br>Description: 16 BIT DSC, DUAL CORE, 64 K FLAS  | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F18875T-I/PT</a><br>Description: IC MCU 8BIT 14KB FLASH 44TQFP         | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">MK81FN256VDC15R</a><br>Description: KINETIS K SERIES 32-BIT MCU ARM         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F023PF-GS-9035</a><br>Description: IC MCU MICOM FLASH 100QFP            | Manufacturers: <a href="#">Cypress Semiconductor</a>                           | <div>RFQ</div> |
|  | Part#: <a href="#">MK81FN256VLL15</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP         | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>                  | <div>RFQ</div> |
|  | Part#: <a href="#">Z86E8316SSG</a><br>Description: IC MCU 8BIT 4KB OTP 28SOIC                  | Manufacturers: <a href="#">Zilog</a>                                           | <div>RFQ</div> |
|  | Part#: <a href="#">ATUC256L3U-AUR</a><br>Description: IC MCU 32BIT 256KB FLASH 64TQFP          | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |
|  | Part#: <a href="#">PIC18F4610-E/PT</a><br>Description: IC MCU 8BIT 64KB FLASH 44TQFP           | Manufacturers: <a href="#">Micrel / Microchip Technology</a>                   | <div>RFQ</div> |

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