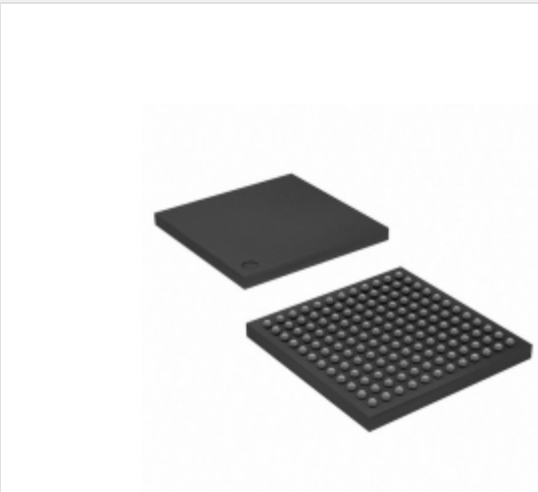


PK40X256VMD100



**Part Number:** [PK40X256VMD100](#)

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

**Description:** IC MCU 32BIT 256KB FLASH 144BGA

**Data sheet:**

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

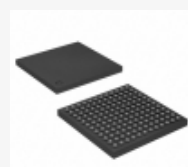
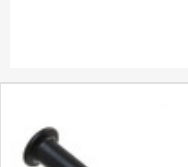
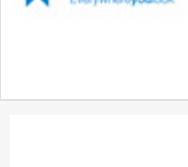
**Ship From:** Hong Kong

**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                                                                                                                                                                                                                                                                                                                                                                                                                              | PK40X256VMD100                                 | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 256KB FLASH 144BGA                | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                             |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                       | 4076 pcs                                       | Data sheet                     |                                                                                                        |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>      | Voltage - Supply (Vcc/Vdd)     | 1.71 V ~ 3.6 V                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                  | 144-MAPBGA (13x13)                             | Speed                          | 100MHz                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                   | Kinetis K40                                    | RAM Size                       | 64K x 8                                                                                                |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                          | Program Memory Size            | 256KB (256K x 8)                                                                                       |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                              | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT | Packaging                      | Tray                                                                                                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                           | 144-LBGA                                       | Oscillator Type                | Internal                                                                                               |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 105°C (TA)                             | Number of I/O                  | 98                                                                                                     |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                                  | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                             |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                              | 4K x 8                                         | Detailed Description           | ARM® Cortex®-M4 Kinetis K40 Microcontroller IC 32-Bit 100MHz 256KB (256K x 8) FLASH 144-MAPBGA (13x13) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 27x16b, D/A 2x12b                          | Core Size                      | 32-Bit                                                                                                 |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M4                                | Connectivity                   | CANbus, EBI/EMI, I <sup>2</sup> C, IrDA, SD, SPI, UART/USART, USB, USB OTG                             |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                         | PK40X256                                       |                                |                                                                                                        |
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|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
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|  | Part#: <a href="#">PK40N512VMD100</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40X128VLQ100</a><br>Description: IC MCU 32BIT 128KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-2</a><br>Description: GND LEAD W/ALLIGATOR QTY 10           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40N512VLQ100</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-5</a><br>Description: DELUXE TRIMMER TOOL QTY 10            | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK400-1</a><br>Description: PROBE LARGE GRIPPERS .10\" 10PCS        | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40X256VLQ100</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-6</a><br>Description: IC TIP INSULATOR BLACK QTY 10         | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK400-0</a><br>Description: EXTRA LARGE GRIPPER PROBE SET           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40N512VLK100</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-3</a><br>Description: BNC ADAPTER, 5MM QTY 10               | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40X128VMD100</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK40N512VLL100</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-7</a><br>Description: TIP INSULATOR BLACK QTY 10            | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-8</a><br>Description: IDENTIFIER RINGS 5 COLOR 2 PCS        | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-1</a><br>Description: SPRUNG HOOK, 5MM, BLACK QTY 10        | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK400-2</a><br>Description: PROBE MED GRIPPER .04\" 10PCS           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-9</a><br>Description: PROBE TIP GND QTY 10                  | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PK4-5MM-4</a><br>Description: REPLACEMENT TIP, BLACK QTY 10         | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | <a href="#">RFQ</a> |

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