

PK30N512VLQ100



Part Number: [PK30N512VLQ100](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:

RoHs Status: Lead free / RoHS Compliant

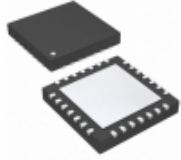
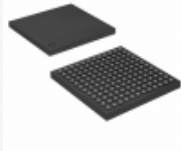
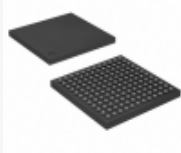
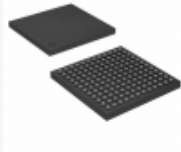
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |                                |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PK30N512VLQ100                                 | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 144LQFP               | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5369 pcs                                       | Data sheet                     |                                                                                                      |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>      | Voltage - Supply (Vcc/Vdd)     | 1.71 V ~ 3.6 V                                                                                       |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 144-LQFP (20x20)                               | Speed                          | 100MHz                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K30                                    | RAM Size                       | 128K x 8                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                          | Program Memory Size            | 512KB (512K x 8)                                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DMA, I <sup>2</sup> S, LCD, LVD, POR, PWM, WDT | Packaging                      | Tray                                                                                                 |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 144-LQFP                                       | Oscillator Type                | Internal                                                                                             |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 105°C (TA)                             | Number of I/O                  | 102                                                                                                  |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                  | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                           |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                              | Detailed Description           | ARM® Cortex®-M4 Kinetis K30 Microcontroller IC 32-Bit 100MHz 512KB (512K x 8) FLASH 144-LQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 31x16b, 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                                         |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PK30N512                                       |                                |                                                                                                      |
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|  | Part#: <a href="#">R5F212A8SNFP#V2</a><br>Description: IC MCU 16BIT 64KB FLASH 64LQFP       | Manufacturers: <a href="#">Renesas Electronics America</a>    | RFQ |
|  | Part#: <a href="#">PK30N512VLL100</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">PK30N512VLK100</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">PK30X256VLQ100</a><br>Description: IC MCU 32BIT 256KB FLASH 144LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">PK30X128VMD100</a><br>Description: IC MCU 32BIT 128KB FLASH 144BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">PK30X-5</a><br>Description: BANANA SPADE TERM                            | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">PK30X-3</a><br>Description: BANANA JAW CLIP RE                           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">D6417729RF133BV</a><br>Description: IC MCU 32BIT ROMLESS 208LQFP         | Manufacturers: <a href="#">Renesas Electronics America</a>    | RFQ |
|  | Part#: <a href="#">PK30N512VMD100</a><br>Description: IC MCU 32BIT 512KB FLASH 144BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |
|  | Part#: <a href="#">PK30X-2</a><br>Description: BANANA ALLIGATOR CLIPS                       | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">PK30X-4</a><br>Description: BANANA CLAMP CLIPS                           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">AT89C51RC-24JI</a><br>Description: IC MCU 8BIT 32KB FLASH 44PLCC         | Manufacturers: <a href="#">Micrel / Microchip Technology</a>  | RFQ |
|  | Part#: <a href="#">PK3021LI</a><br>Description: KIT LIGHT, MOUSE, AND USB HUB               | Manufacturers: <a href="#">Tripp Lite</a>                     | RFQ |
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|  | Part#: <a href="#">PK30X-1</a><br>Description: BANANA PLUG HOOK                             | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">PK3022ET</a><br>Description: KIT CAT5 CABLE MOUSE USB HUB                | Manufacturers: <a href="#">Tripp Lite</a>                     | RFQ |
|  | Part#: <a href="#">PK350ST-1</a><br>Description: KIT DMPNG RESISTOR FOR D350ST-SI           | Manufacturers: <a href="#">LeCroy (Teledyne LeCroy)</a>       | RFQ |
|  | Part#: <a href="#">PK30X256VMD100</a><br>Description: IC MCU 32BIT 256KB FLASH 144BGA       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | RFQ |

| Related keywords for PK30N512VLQ100 |                                   |                                              |                             |
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