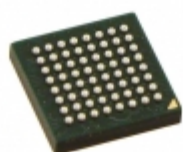


MK20DN128VMP5



Part Number: [MK20DN128VMP5](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MCU 32BIT 128KB FLASH 64BGA

Data sheet:  [K2x USB MCU Family Fact Sheet](#)  
 [K20\\_LH/MP5 Ref Manual](#)  
 [K20\\_LH/MP5 Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

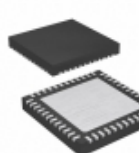
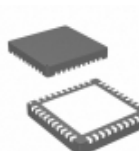
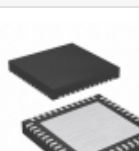
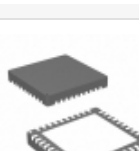
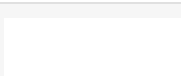
Ship From: Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                    |                                  |                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MK20DN128VMP5                                                                                      | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 128KB FLASH 64BGA                                                                     | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 18358 pcs                                                                                          | Data sheet                       | <a href="#">K2x USB MCU Family Fact Sheet</a><br><a href="#">K20_LH/MP5 Ref Manual</a><br><a href="#">K20_LH/MP5 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                                          | Voltage - Supply (Vcc/Vdd)       | 1.71 V ~ 3.6 V                                                                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-MAPBGA (5x5)                                                                                    | Speed                            | 50MHz                                                                                                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Kinetis K20                                                                                        | RAM Size                         | 16K x 8                                                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                              | Program Memory Size              | 128KB (128K x 8)                                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DMA, I <sup>2</sup> S, LVD, POR, PWM, WDT                                                          | Packaging                        | Tray                                                                                                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-LFBGA                                                                                           | Other Names                      | 935321711557                                                                                                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                                                           | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 40                                                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                                         | EEPROM Size                      | -                                                                                                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARM® Cortex®-M4 Kinetis K20 Microcontroller IC 32-Bit 50MHz 128KB (128K x 8) FLASH 64-MAPBGA (5x5) | Data Converters                  | A/D 13x16b                                                                                                                     |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32-Bit                                                                                             | Core Processor                   | ARM® Cortex®-M4                                                                                                                |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I <sup>2</sup> C, IrDA, SPI, UART/USART, USB, USB OTG                                              | Base Part Number                 | MK20DN128                                                                                                                      |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                                   |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MK20DN128VFT5</a><br>Description: IC MCU 32BIT 128KB FLASH 48QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLK10</a><br>Description: IC MCU 32BIT 512KB FLASH 80LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VLH5</a><br>Description: IC MCU 32BIT 128KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GITR</a><br>Description: IC VCXO CLK TRANSLATOR 56-TSSOP    | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VFM5</a><br>Description: IC MCU 32BIT 128KB FLASH 32QFN     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VMP5</a><br>Description: IC MCU 32BIT 32KB FLASH 64MAPBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-01GITR</a><br>Description: IC VCXO CLK SYNCHRONIZER 56TSSOP   | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VMC10</a><br>Description: IC MCU 32BIT 512KB FLASH 121BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-01GILFTR</a><br>Description: IC VCXO CLK SYNCHRONIZER 56TSSOP | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLK10R</a><br>Description: KINETIS K 32-BIT MCU ARM CORTEX  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VLF5</a><br>Description: IC MCU 32BIT 32KB FLASH 48LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GILF</a><br>Description: IC CLOCK SYNTHESIZER 56-TSSOP      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VFT5</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLL10</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VLH5</a><br>Description: IC MCU 32BIT 32KB FLASH 64LQFP      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN512VLQ10</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN128VLF5</a><br>Description: IC MCU 32BIT 128KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GILFTR</a><br>Description: IC VCXO CLK TRANSLATOR 56-TSSOP  | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MK20DN32VFM5</a><br>Description: IC MCU 32BIT 32KB FLASH 32QFN       | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a>     | <div>RFQ</div> |
|  | Part#: <a href="#">MK2069-04GI</a><br>Description: IC VCXO CLK TRANSLATOR 56-TSSOP      | Manufacturers: <a href="#">IDT (Integrated Device Technology)</a> | <div>RFQ</div> |

|                                           |                                |                                  |                                             |
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