

MC56F8245MLD



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**Part Number:** [MC56F8245MLD](#)

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

**Description:** IC MCU 16BIT 48KB FLASH 44LQFP

**Data sheet:**  [MC56F825x,824x Ref Manual](#)  
 [MC56F82xx Fact Sheet](#)  
 [MC56F825x/MC56F824x Errata](#)  
 [MC56F825x/824x Datasheet](#)  
 [MC56F825x/824x Product Brief](#)

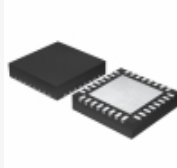
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |                                  |                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                             | MC56F8245MLD                                                                         | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 16BIT 48KB FLASH 44LQFP                                                       | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                      | 19201 pcs                                                                            | Data sheet                       | <a href="#">MC56F825x,824x Ref Manual</a><br><a href="#">MC56F82xx Fact Sheet</a><br><a href="#">MC56F825x/MC56F824x Errata</a><br><a href="#">MC56F825x/824x Datasheet</a><br><a href="#">MC56F825x/824x Product Brief</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                                            | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                                                                                                                                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                 | 44-LQFP (10x10)                                                                      | Speed                            | 60MHz                                                                                                                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                  | 56F8xxx                                                                              | RAM Size                         | 3K x 16                                                                                                                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                                                                | Program Memory Size              | 48KB (24K x 16)                                                                                                                                                                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                             | LVD, POR, PWM, WDT                                                                   | Packaging                        | Tray                                                                                                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                          | 44-LQFP                                                                              | Other Names                      | 568-14453<br>935321962557<br>MC56F8245MLD-ND                                                                                                                                                                                |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                                                             | Operating Temperature            | -40°C ~ 125°C (TA)                                                                                                                                                                                                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                           | 35                                                                                   | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                               |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                          | Lead free / RoHS Compliant                                                           | EEPROM Size                      | -                                                                                                                                                                                                                           |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                    | 56800E 56F8xxx Microcontroller IC 16-Bit 60MHz 48KB (24K x 16) FLASH 44-LQFP (10x10) | Data Converters                  | A/D 8x12b, D/A 1x12b                                                                                                                                                                                                        |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                               | 16-Bit                                                                               | Core Processor                   | 56800E                                                                                                                                                                                                                      |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                            | CANbus, I <sup>2</sup> C, LINbus, SCI, SPI                                           | Base Part Number                 | MC56F8245                                                                                                                                                                                                                   |
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|  | Part#: <a href="#">MC56F8157VVFE</a><br>Description: IC MCU 16BIT 256KB FLASH 160BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F82348MLH</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC56F8255VLD</a><br>Description: IC MCU 16BIT 64KB FLASH 44LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F82348MLHR</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8167VPYE</a><br>Description: IC MCU 16BIT 512KB FLASH 160LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8245VLD</a><br>Description: IC MCU 16BIT 48KB FLASH 44LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC56F8165VFGE</a><br>Description: IC MCU 16BIT 512KB FLASH 128LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8246MLFR</a><br>Description: 16-BIT DSC 56800E CORE 48KB FL   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8246MLF</a><br>Description: IC MCU 16BIT 48KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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