

MC56F8037VLHR



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**Part Number:** [MC56F8037VLHR](#)

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

**Description:** IC MCU 16BIT 64KB FLASH 64LQFP

**Data sheet:**  [840F-02 Pkg Drawing](#)  
 [MC56F8027/8037](#)

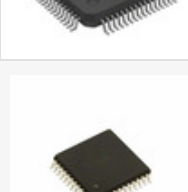
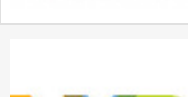
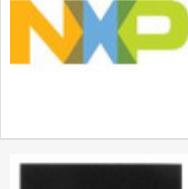
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                  |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MC56F8037VLHR                             | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 16BIT 64KB FLASH 64LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13357 pcs                                 | Data sheet                       | <a href="#">840F-02 Pkg Drawing</a><br><a href="#">MC56F8027/8037</a>                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                          |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-LQFP (10x10)                           | Speed                            | 32MHz                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 56F8xxx                                   | RAM Size                         | 4K x 16                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                     | Program Memory Size              | 64KB (32K x 16)                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | POR, PWM, WDT                             | Packaging                        | Tape & Reel (TR)                                                                     |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-LQFP                                   | Other Names                      | 935323055528<br>MC56F8037VLHR-ND<br>MC56F8037VLHRTR                                  |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                   |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                        |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                           |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                         | Detailed Description             | 56800E 56F8xxx Microcontroller IC 16-Bit 32MHz 64KB (32K x 16) FLASH 64-LQFP (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 16x12b; D/A 2x12b                     | Core Size                        | 16-Bit                                                                               |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56800E                                    | Connectivity                     | CANbus, I²C, SCI, SPI                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MC56F8037                                 |                                  |                                                                                      |
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|  | Part#: <a href="#">MC56F8036VLF</a><br>Description: IC MCU 16BIT 64KB FLASH 48LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8033VLC</a><br>Description: IC MCU 16BIT 64KB FLASH 32LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC56F8122VFAE</a><br>Description: IC MCU 16BIT 32KB FLASH 48LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MC56F8145VFGE</a><br>Description: IC MCU 16BIT 128KB FLASH 128LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8025VLDR</a><br>Description: IC MCU 16BIT 32KB FLASH 44LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8155VFGE</a><br>Description: IC MCU 16BIT 256KB FLASH 128LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8037VLH</a><br>Description: IC MCU 16BIT 64KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8035VLDR</a><br>Description: IC MCU 16BIT 64KB FLASH 44LQFP   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8157VPYE</a><br>Description: IC MCU 16BIT 256KB FLASH 160LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8146VFVE</a><br>Description: IC MCU 16BIT 128KB FLASH 144LQFP | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MC56F8037MLH</a><br>Description: IC MCU 16BIT 64KB FLASH 64LQFP    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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