

MB96F378HSBPMC-GK5E2



**Part Number:** [MB96F378HSBPMC-GK5E2](#)

**Manufacturer:** [Cypress Semiconductor](#)

**Description:** IC MCU 16BIT 576KB FLASH 144LQFP

**Data sheet:**

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

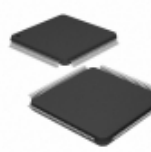
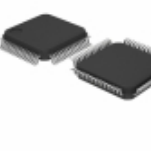
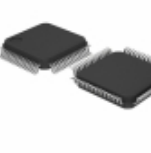
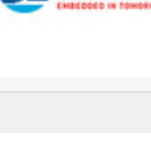
**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                     |                                  |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MB96F378HSBPMC-GK5E2                                                                                | Manufacturer                     | <a href="#">Cypress Semiconductor</a>       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 576KB FLASH 144LQFP                                                                    | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5662 pcs                                                                                            | Data sheet                       |                                             |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a>                                                           | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 5.5 V                                 |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 144-LQFP (20x20)                                                                                    | Speed                            | 40MHz                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F*MC-16FX MB96370                                                                                   | RAM Size                         | 28K x 8                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FLASH                                                                                               | Program Memory Size              | 576KB (576K x 8)                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DMA, LCD, LVD, LVR, POR, PWM, WDT                                                                   | Packaging                        | Tray                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 144-LQFP                                                                                            | Other Names                      | MB96F378HSBPMC-GE2<br>MB96F378HSBPMC-GE2-ND |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal                                                                                            | Operating Temperature            | -40°C ~ 105°C (TA)                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120                                                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                               |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lead free / RoHS Compliant                                                                          | EEPROM Size                      | -                                           |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        | F*MC-16FX F*MC-16FX MB96370 Microcontroller IC 16-Bit 40MHz 576KB (576K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 22x10b                                  |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16-Bit                                                                                              | Core Processor                   | F*MC-16FX                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CANbus, EBI/EMI, I <sup>2</sup> C, LINbus, SCI, UART/USART                                          |                                  |                                             |
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|  | Part#: <a href="#">MB96F356RWBPMC1-GE2</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB96F356RWBPMC1-GSE2</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB96F356YSBPMC-GE1</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB96F356YWBPMC-GE1</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB96F356YWBPMC1-GE2</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB96F378HSBPMC-GS-N2K5E2</a><br>Description: IC MCU 16BIT 576KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB96F356YWBPMC-GE2</a><br>Description: IC MCU 16BIT 288KB FLASH 64LQFP        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB96F378HSBPMC-GS-JAK5E2</a><br>Description: IC MCU 16BIT 576KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |

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