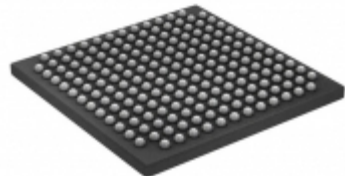


MB9BF416TBGL-GK7E1





**Part Number:** [MB9BF416TBGL-GK7E1](#)

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

**Description:** IC MCU 32BIT 512KB FLASH 192BGA

**Data sheet:**  [MB9B410T Series](#)

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

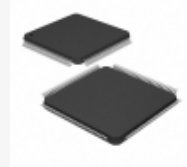
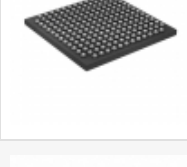
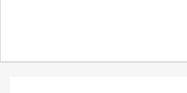
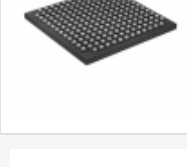
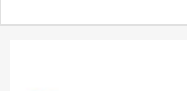
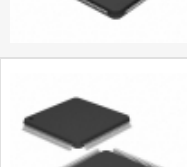
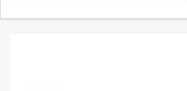
**Ship From:** Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                  |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MB9BF416TBGL-GK7E1                        | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 512KB FLASH 192BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6221 pcs                                  | Data sheet                       | <a href="#">MB9B410T Series</a>                                                                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 192-FBGA (12x12)                          | Speed                            | 144MHz                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FM3 MB9B410T                              | RAM Size                         | 64K x 8                                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                     | Program Memory Size              | 512KB (512K x 8)                                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DMA, LVD, POR, PWM, WDT                   | Packaging                        | Tray                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 192-LFBGA                                 | Other Names                      | CY9BF416TBGL-GK7E1<br>MB9BF416TBGL-GE1<br>MB9BF416TBGL-GE1-ND                                         |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 154                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                         |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                         | Detailed Description             | ARM® Cortex®-M3 FM3 MB9B410T Microcontroller IC 32-Bit 144MHz 512KB (512K x 8) FLASH 192-FBGA (12x12) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A/D 32x12b                                | Core Size                        | 32-Bit                                                                                                |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-M3                           | Connectivity                     | CANbus, CSIO, EBI/EMI, I²C, LINbus, UART/USART                                                        |
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|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
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|  | Part#: <a href="#">MB9BF415RPMC-G-JNE2</a><br>Description: IC MCU 32BIT 416KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF415NPMC-G-JNE2</a><br>Description: IC MCU 32BIT 416KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416NPQC-G-JNE2</a><br>Description: IC MCU 32BIT 512KB FLASH 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF428TABGL-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 192BGA    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF415NPQC-G-JNE2</a><br>Description: IC MCU 32BIT 416KB FLASH 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416SPMC-GK7E1</a><br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF415NBGL-GE1</a><br>Description: IC MCU 32BIT 416KB FLASH 112BGA     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF417TBGL-GK7E1</a><br>Description: IC MCU 32BIT 768KB FLASH 192BGA   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF428SPMC-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF418TBGL-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 192BGA     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF417TPMC-GK7E1</a><br>Description: IC MCU 32BIT 768KB FLASH 176LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416TPMC-GK7E1</a><br>Description: IC MCU 32BIT 512KB FLASH 176LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF417SPMC-GK7E1</a><br>Description: IC MCU 32BIT 768KB FLASH 144LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416NPMC-G-JNE2</a><br>Description: IC MCU 32BIT 512KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416NBGL-GE1</a><br>Description: IC MCU 32BIT 512KB FLASH 112BGA     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF418SPMC-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF414RPMC-G-JNE2</a><br>Description: IC MCU 32BIT 288KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF416RPMC-G-JNE2</a><br>Description: IC MCU 32BIT 512KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF418TPMC-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 176LQFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |

|                                                |                                               |                             |                          |
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