

MB9AF116NABGL-GE1



**Part Number:** [MB9AF116NABGL-GE1](#)

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

**Description:** IC MCU 32BIT 512KB FLASH 112BGA

**Data sheet:**  [MB9A110A Series](#)

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

**Ship From:** Hong Kong

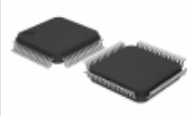
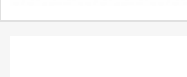
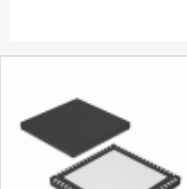
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See Product Specifications for product details.  
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| PRODUCT PARAMETER               |                                           |                                  |                                                                                                       |
|---------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Part Number                     | MB9AF116NABGL-GE1                         | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                                 |
| Description                     | IC MCU 32BIT 512KB FLASH 112BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| Quantity Available              | 20704 pcs                                 | Data sheet                       | <a href="#">MB9A110A Series</a>                                                                       |
| Category                        | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                                         |
| Supplier Device Package         | 112-PFBGA (10x10)                         | Speed                            | 40MHz                                                                                                 |
| Series                          | FM3 MB9A110A                              | RAM Size                         | 32K x 8                                                                                               |
| Program Memory Type             | FLASH                                     | Program Memory Size              | 512KB (512K x 8)                                                                                      |
| Peripherals                     | DMA, LVD, POR, PWM, WDT                   | Packaging                        | Tray                                                                                                  |
| Package / Case                  | 112-LFBGA                                 | Other Names                      | CY9AF116NABGL-GE1                                                                                     |
| Oscillator Type                 | Internal                                  | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                    |
| Number of I/O                   | 83                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                         |
| Manufacturer Standard Lead Time | 26 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| EEPROM Size                     | -                                         | Detailed Description             | ARM® Cortex®-M3 FM3 MB9A110A Microcontroller IC 32-Bit 40MHz 512KB (512K x 8) FLASH 112-PFBGA (10x10) |
| Data Converters                 | A/D 16x12b                                | Core Size                        | 32-Bit                                                                                                |
| Core Processor                  | ARM® Cortex®-M3                           | Connectivity                     | CSIO, EBI/EMI, I <sup>2</sup> C, LINbus, SPI, UART/USART                                              |

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|  | Part#: <a href="#">MB9AF114NPMC-GE1</a><br>Description: IC MCU 32BIT 256KB FLASH             | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB9AF116NAPMC-G-YE1</a><br>Description: IC MCU 32BIT 512KB FLASH          | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB9AF114NAPMC-G-JNE2</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB9AF114NBGL-GE1</a><br>Description: IC MCU 32BIT 256KB FLASH             | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB9AF131KAPMC-G-UNE2</a><br>Description: IC MCU 32BIT 64KB FLASH 48LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB9AF121LPMC-G-JNE2</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MB9AF121LPMC1-G-JNE2</a><br>Description: IC MCU 32BIT 64KB FLASH 64LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MB9AF114LAQN-G-AVE2</a><br>Description: IC MCU 32BIT 256KB FLASH 64QFN    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
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