

MB9BF505NBBGL-GK6E1



**Part Number:** [MB9BF505NBBGL-GK6E1](#)

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

**Description:** IC MCU 32BIT 384KB FLASH 112BGA

**Data sheet:**  [MB9B500B Series](#)

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

**Ship From:** Hong Kong

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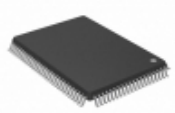
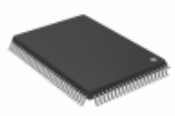
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| PRODUCT PARAMETER               |                                           |                                  |                                                                                                       |
|---------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Part Number                     | MB9BF505NBBGL-GK6E1                       | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                                 |
| Description                     | IC MCU 32BIT 384KB FLASH 112BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| Quantity Available              | 12907 pcs                                 | Data sheet                       | <a href="#">MB9B500B 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                            | 80MHz                                                                                                 |
| Series                          | FM3 MB9B500B                              | RAM Size                         | 48K x 8                                                                                               |
| Program Memory Type             | FLASH                                     | Program Memory Size              | 384KB (384K x 8)                                                                                      |
| Peripherals                     | DMA, LVD, POR, PWM, WDT                   | Packaging                        | Tray                                                                                                  |
| Package / Case                  | 112-LFBGA                                 | Other Names                      | CY9BF505NBBGL-GK6E1<br>MB9BF505NBBGL-GE1<br>MB9BF505NBBGL-GE1-ND                                      |
| Oscillator Type                 | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                     |
| Number of I/O                   | 80                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                         |
| Manufacturer Standard Lead Time | 25 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                            |
| EEPROM Size                     | -                                         | Detailed Description             | ARM® Cortex®-M3 FM3 MB9B500B Microcontroller IC 32-Bit 80MHz 384KB (384K x 8) FLASH 112-PFBGA (10x10) |
| Data Converters                 | A/D 16x12b                                | Core Size                        | 32-Bit                                                                                                |
| Core Processor                  | ARM® Cortex®-M3                           | Connectivity                     | CANbus, CSIO, EBI/EMI, I²C, LINbus, UART/USART, USB                                                   |

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|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MB9BF512NPQC-G-JNE2</a><br>Description: IC MCU 32BIT 160KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF504NBPMC-G-UNE2</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
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|  | Part#: <a href="#">MB9BF468NPQC-G-JNE2</a><br>Description: IC MCU 32BIT 1MB FLASH 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF506NBPMC-G-UNE2</a><br>Description: IC MCU 32BIT 512KB FLASH         | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
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|  | Part#: <a href="#">MB9BF506RBPMC-G-UNE2</a><br>Description: IC MCU 32BIT 512KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF504NBBGL-GK6E1</a><br>Description: IC MCU 32BIT 256KB FLASH 112BGA   | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF505RBPMC-G-JNE2</a><br>Description: IC MCU 32BIT 384KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF468NBGL-GE1</a><br>Description: IC MCU 32BIT 1MB FLASH 112BGA        | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF468RBGL-GK7E1</a><br>Description: IC MCU 32BIT 1MB FLASH 144BGA      | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
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|  | Part#: <a href="#">MB9BF506NBBGL-GK6E1</a><br>Description: IC MCU 32BIT 512KB FLASH 112BGA   | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF505NBPMC-G-JNE2</a><br>Description: IC MCU 32BIT 384KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF512NPMC-G-JNE2</a><br>Description: IC MCU 32BIT 160KB FLASH 100LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a>             | <div>RFQ</div> |
|  | Part#: <a href="#">MB9BF504RPMC-GE1</a><br>Description: IC MCU 32BIT 256KB FLASH 100LQFP     | Manufacturers: <a href="#">Fujitsu Electronics America, Inc.</a> | <div>RFQ</div> |
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