

MB9AFA42NBBGL-GE1



Part Number: [MB9AFA42NBBGL-GE1](#)

Manufacturer: [Cypress Semiconductor](#)

Description: IC MCU 32BIT 160KB FLASH 112BGA

Data sheet:  [MB9AA40NB Series](#)

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

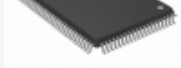
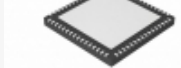
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| PRODUCT PARAMETER               |                                           |                                  |                                                                                                        |
|---------------------------------|-------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------|
| Part Number                     | MB9AFA42NBBGL-GE1                         | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                                  |
| Description                     | IC MCU 32BIT 160KB FLASH 112BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                             |
| Quantity Available              | 20013 pcs                                 | Data sheet                       | <a href="#">MB9AA40NB Series</a>                                                                       |
| Category                        | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 1.65 V ~ 3.6 V                                                                                         |
| Supplier Device Package         | 112-PFBGA (10x10)                         | Speed                            | 40MHz                                                                                                  |
| Series                          | FM3 MB9AA40NB                             | RAM Size                         | 16K x 8                                                                                                |
| Program Memory Type             | FLASH                                     | Program Memory Size              | 160KB (160K x 8)                                                                                       |
| Peripherals                     | DMA, LCD, LVD, POR, PWM, WDT              | Packaging                        | Tray                                                                                                   |
| Package / Case                  | 112-LFBGA                                 | Other Names                      | CY9AFA42NBBGL-GE1                                                                                      |
| Oscillator Type                 | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                      |
| Number of I/O                   | 83                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                          |
| Manufacturer Standard Lead Time | 15 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                             |
| EEPROM Size                     | -                                         | Detailed Description             | ARM® Cortex®-M3 FM3 MB9AA40NB Microcontroller IC 32-Bit 40MHz 160KB (160K x 8) FLASH 112-PFBGA (10x10) |
| Data Converters                 | A/D 24x12b                                | Core Size                        | 32-Bit                                                                                                 |
| Core Processor                  | ARM® Cortex®-M3                           | Connectivity                     | CSIO, EBI/EMI, I²C, UART/USART                                                                         |

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