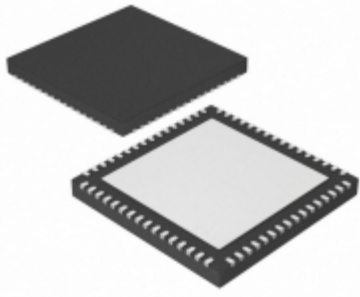


MB9AF144LBQN-G-AVE2



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**Part Number:** MB9AF144LBQN-G-AVE2

**Manufacturer:** Cypress Semiconductor

**Description:** IC MCU 32BIT 288KB FLASH 64QFN

**Data sheet:**  MB9A140NB Series

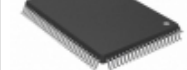
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                  |                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                  | MB9AF144LBQN-G-AVE2            | Manufacturer                     | Cypress Semiconductor                                                                             |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                  | IC MCU 32BIT 288KB FLASH 64QFN | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                           | 26342 pcs                      | Data sheet                       | MB9A140NB Series                                                                                  |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                     | Integrated Circuits (ICs)      | Voltage - Supply (Vcc/Vdd)       | 1.65 V ~ 3.6 V                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                      | 64-QFN (9x9)                   | Speed                            | 40MHz                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                       | FM3 MB9A140NB                  | RAM Size                         | 32K x 8                                                                                           |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                          | FLASH                          | Program Memory Size              | 288KB (288K x 8)                                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                  | LVD, POR, PWM, WDT             | Packaging                        | Tray                                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                               | 64-VFQFN Exposed Pad           | Other Names                      | CY9AF144LBQN-G-AVE2                                                                               |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                              | Internal                       | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                 |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                | 51                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                     |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                              | 22 Weeks                       | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                  | -                              | Detailed Description             | ARM® Cortex®-M3 FM3 MB9A140NB Microcontroller IC 32-Bit 40MHz 288KB (288K x 8) FLASH 64-QFN (9x9) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                              | A/D 12x12b                     | Core Size                        | 32-Bit                                                                                            |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                               | ARM® Cortex®-M3                | Connectivity                     | CSIO, I²C, SPI, UART/USART                                                                        |
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| RELATED PRODUCTS                                                                   |                                                                              |                                      |     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------|-----|
|  | Part#: MB9AF144MAPMC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH         | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142MBPMC1-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 80LQFP | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142NBPQC-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 100QFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142MBPMC-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 80LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144NBPQC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 100QFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144MBPMC1-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 80LQFP | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144LAPMC1-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH        | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF154MABGL-GE1<br>Description: IC MCU 32BIT 288KB FLASH 96BGA      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144NBBGL-GE1<br>Description: IC MCU 32BIT 288KB FLASH 112BGA     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144LBPMC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 64LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144NBPMC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 100LQFP | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144MBBGL-GE1<br>Description: IC MCU 32BIT 288KB FLASH 96BGA      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144MBPMC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 80LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142MBBGL-GE1<br>Description: IC MCU 32BIT 160KB FLASH 96BGA      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142NBBGL-GE1<br>Description: IC MCU 32BIT 160KB FLASH 112BGA     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142LPMC1-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH         | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144MABGL-GE1<br>Description: IC MCU 32BIT 288KB FLASH            | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF144LBPMC1-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 64LQFP | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF154MAPMC-G-JNE2<br>Description: IC MCU 32BIT 288KB FLASH 80LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF142NBPMC-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 100LQFP | Manufacturers: Cypress Semiconductor | RFQ |

Related keywords for MB9AF144LBQN-G-AVE2

|                                           |                                                |                              |                           |
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