

MB9AF311LAPMC1-G-JNE2



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Part Number: MB9AF311LAPMC1-G-JNE2

Manufacturer: Cypress Semiconductor

Description: IC MCU 32BIT 64KB FLASH 64LQFP

Data sheet:  MB9A310A Series

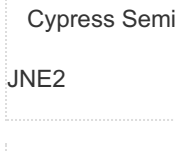
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                 |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | MB9AF311LAPMC1-G-JNE2                                                                             | Manufacturer                    | Cypress Semiconductor      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 32BIT 64KB FLASH 64LQFP                                                                    | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                             | 27133 pcs                                                                                         | Data sheet                      | MB9A310A Series            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Circuits (ICs)                                                                         | Voltage - Supply (Vcc/Vdd)      | 2.7 V ~ 5.5 V              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                        | 64-LQFP (10x10)                                                                                   | Speed                           | 40MHz                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                         | FM3 MB9A310A                                                                                      | RAM Size                        | 16K x 8                    |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                                                                             | Program Memory Size             | 64KB (64K x 8)             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                    | DMA, LVD, POR, PWM, WDT                                                                           | Packaging                       | Tray                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-LQFP                                                                                           | Oscillator Type                 | Internal                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                          | -40°C ~ 105°C (TA)                                                                                | Number of I/O                   | 51                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                               | 3 (168 Hours)                                                                                     | Manufacturer Standard Lead Time | 29 Weeks                   |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                 | Lead free / RoHS Compliant                                                                        | EEPROM Size                     | -                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M3 FM3 MB9A310A Microcontroller IC 32-Bit 40MHz 64KB (64K x 8) FLASH 64-LQFP (10x10) | Data Converters                 | A/D 9x12b                  |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                      | 32-Bit                                                                                            | Core Processor                  | ARM® Cortex®-M3            |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                   | CSIO, I²C, LINbus, UART/USART, USB                                                                |                                 |                            |
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|  | Part#: MB9AF311MAPMC-G-JNE2<br>Description: IC MCU 32BIT 64KB FLASH 80LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF312KPMC-G-104-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 48LQFP | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF312KPMC-G-JNE2<br>Description: IC MCU 32BIT 160KB FLASH 48LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF1A2NPF-G-SNE1<br>Description: IC MCU 32BIT 128KB FLASH 100LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF1A2MPMC-G-UNE2<br>Description: IC MCU 32BIT 128KB FLASH            | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF1A2NPMC-G-SNE2<br>Description: IC MCU 32BIT 128KB FLASH 100LQFP    | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF311NAPF-G-JNE1<br>Description: IC MCU 32BIT 64KB FLASH 100QFP      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF312KQN-G-AVE2<br>Description: IC MCU 32BIT 160KB FLASH 48QFN       | Manufacturers: Cypress Semiconductor | RFQ |
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|  | Part#: MB9AF311KPMC1-G-JNE2<br>Description: IC MCU 32BIT 96KB FLASH 52LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
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|  | Part#: MB9AF1A2NPMC-G-UNE2<br>Description: IC MCU 32BIT 128KB FLASH            | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB9AF1A2MPMC1-G-SNE2<br>Description: IC MCU 32BIT 128KB FLASH 80LQFP    | Manufacturers: Cypress Semiconductor | RFQ |
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