

MB96F645RBPMC-GS-N2E1



Part Number: [MB96F645RBPMC-GS-N2E1](#)

Manufacturer: [Cypress Semiconductor](#)

Description: IC MCU 16BIT 96KB FLASH 100LQFP

Data sheet:

RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                |                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MB96F645RBPMC-GS-N2E1                     | Manufacturer                   | <a href="#">Cypress Semiconductor</a>                                                                                       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 96KB FLASH 100LQFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 17767 pcs                                 | Data sheet                     |                                                                                                                             |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 2.7 V ~ 5.5 V                                                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100-LQFP (14x14)                          | Speed                          | 32MHz                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | F <sup>2</sup> MC-16FX MB96640            | RAM Size                       | 10K x 8                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                     | Program Memory Size            | 96KB (96K x 8)                                                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DMA, LVD, POR, PWM, WDT                   | Packaging                      | Tray                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100-LQFP                                  | Oscillator Type                | Internal                                                                                                                    |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40°C ~ 125°C (TA)                        | Number of I/O                  | 81                                                                                                                          |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                  |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                         | Detailed Description           | F <sup>2</sup> MC-16FX F <sup>2</sup> MC-16FX MB96640 Microcontroller IC 16-Bit 32MHz 96KB (96K x 8) FLASH 100-LQFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 24x8/10b                              | Core Size                      | 16-Bit                                                                                                                      |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F <sup>2</sup> MC-16FX                    | Connectivity                   | IP, LINbus, SCI, UART/USART                                                                                                 |
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| RELATED PRODUCTS                                                                   |                                                                                               |                                                      |                |
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|  | Part#: <a href="#">MB96F643RBPMC-GSE1</a><br>Description: IC MCU 16BIT 96KB FLASH 100LQFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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