

MB96F645ABPMC-GSE2



**Part Number:** [MB96F645ABPMC-GSE2](#)

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

**Description:** IC MCU 16BIT 160KB FLASH 100LQFP

**Data sheet:**  [MB96640 Series](#)

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

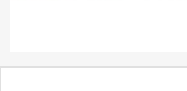
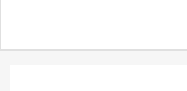
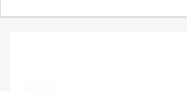
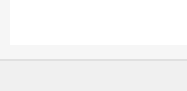
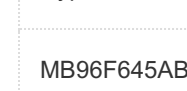
**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                |                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MB96F645ABPMC-GSE2                        | Manufacturer                   | <a href="#">Cypress Semiconductor</a>                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IC MCU 16BIT 160KB FLASH 100LQFP          | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15886 pcs                                 | Data sheet                     | <a href="#">MB96640 Series</a>                                                                                                |
| 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                       | 16K x 8                                                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FLASH                                     | Program Memory Size            | 160KB (160K 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 160KB (160K 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                   | I <sup>2</sup> C, LINbus, SCI, UART/USART                                                                                     |
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| RELATED PRODUCTS                                                                   |                                                  |                                                      |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MB96F646RBP</a> MC-GS-F4E1    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 288KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F645RBP</a> MC-GSE2       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F645RBP</a> MC-GSAE1      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F643ABP</a> MC-GSE2       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F646ABP</a> MC-GSAE1      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 288KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F643RBP</a> MC-GE1        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F646RBP</a> MC-GS-107JAE2 | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MICROCONTROLLER                  |                                                      |                     |
|  | Part#: <a href="#">MB96F645ABP</a> MC-GE1        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F646RBP</a> MC-GS-F4E2    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 288KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F645RBP</a> MC-GS-N2E1    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F643RBP</a> MC-GSAE1      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F645RBP</a> MC-GE1        | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F643RBP</a> MC-GSE1       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F645RBP</a> MC-GSE1       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F643RBP</a> MC-GSE2       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 96KB FLASH 100LQFP     |                                                      |                     |
|  | Part#: <a href="#">MB96F645ABP</a> MC-GS-JAE2    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F646RBP</a> MC-GS-108JAE2 | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MICROCONTROLLER                  |                                                      |                     |
|  | Part#: <a href="#">MB96F645ABP</a> MC-GSE1       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F645ABP</a> MC-GSAE1      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |
|  | Part#: <a href="#">MB96F645ABP</a> MC-GS-JAE1    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <a href="#">RFQ</a> |
|                                                                                    | Description: IC MCU 16BIT 160KB FLASH 100LQFP    |                                                      |                     |

|                                                |                                               |                             |                          |
|------------------------------------------------|-----------------------------------------------|-----------------------------|--------------------------|
| Related keywords for <b>MB96F645ABPMC-GSE2</b> |                                               |                             |                          |
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