

MB96F646RBPMC-GS-JAE2



Part Number: [MB96F646RBPMC-GS-JAE2](#)

Manufacturer: [Cypress Semiconductor](#)

Description: IC MCU 16BIT 288KB FLASH 100LQFP

Data sheet:

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                  |                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MB96F646RBPMC-GS-JAE2                     | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 288KB FLASH 100LQFP          | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14337 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>®</sup> MC-16FX MB96640            | RAM Size                         | 24K x 8                                                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FLASH                                     | Program Memory Size              | 288KB (288K x 8)                                                                                                              |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DMA, LVD, POR, PWM, WDT                   | Packaging                        | Tray                                                                                                                          |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100-LQFP                                  | Other Names                      | CY96F646RBPMC-GS-UJE2                                                                                                         |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Internal                                  | Operating Temperature            | -40°C ~ 125°C (TA)                                                                                                            |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 81                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                 |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                    |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                         | Detailed Description             | F <sup>®</sup> MC-16FX F <sup>®</sup> MC-16FX MB96640 Microcontroller IC 16-Bit 32MHz 288KB (288K x 8) FLASH 100-LQFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 24x8/10b                              | Core Size                        | 16-Bit                                                                                                                        |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F <sup>®</sup> MC-16FX                    | Connectivity                     | CANbus, I <sup>2</sup> C, LINbus, SCI, UART/USART                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                               |                                                      |                |
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|  | Part#: <a href="#">MB96F647RBPMC-GS-N2E2</a><br>Description: IC MCU 16BIT 416KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB96F646RBPMC-GSAE1</a><br>Description: IC MCU 16BIT 288KB FLASH 100LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB96F646RBPMC-GSE2</a><br>Description: IC MCU 16BIT 288KB FLASH 100LQFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB96F646RBPMC-GS-107JAE2</a><br>Description: IC MICROCONTROLLER            | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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