

MB90594GPFR-G-156



Part Number: [MB90594GPFR-G-156](#)

Manufacturer: [Cypress Semiconductor](#)

Description: IC MCU 16BIT 256KB MROM 100QFP

Data sheet:

RoHs Status: Lead free / RoHS Compliant

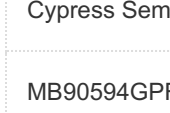
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                |                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MB90594GPFR-G-156                         | Manufacturer                   | <a href="#">Cypress Semiconductor</a>                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 16BIT 256KB MROM 100QFP            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                              |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6127 pcs                                  | Data sheet                     |                                                                                                         |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 5.5 V                                                                                             |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100-PQFP (20x14)                          | Speed                          | 16MHz                                                                                                   |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | F*MC-16LX MB90590G                        | RAM Size                       | 6K x 8                                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mask ROM                                  | Program Memory Size            | 256KB (256K x 8)                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                              | POR, PWM, WDT                             | Packaging                      | Tray                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100-BQFP                                  | Oscillator Type                | External                                                                                                |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 85°C (TA)                         | Number of I/O                  | 78                                                                                                      |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                              |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                         | Detailed Description           | F*MC-16LX F*MC-16LX MB90590G Microcontroller IC 16-Bit 16MHz 256KB (256K x 8) Mask ROM 100-PQFP (20x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A/D 8x8/10b                               | Core Size                      | 16-Bit                                                                                                  |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F*MC-16LX                                 | Connectivity                   | CANbus, EBI/EMI, SCI, Serial I/O, UART/USART                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                              |                                                      |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
|  | Part#: <a href="#">MB90594GPF-GS-165E1</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GHPF-G-195-JNE1</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPF-GS-153E1</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GPF-G-125-JNE1</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594PFR-G-138-BND</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB90594GPF-GS-175E1</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GHPFR-G-121-BND</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-147-BND</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GPF-G-125-BND</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GHPF-G-195</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPF-GS-180E1</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPF-GS-158E1</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP    | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GHPFR-G-195</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-170</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-121-BND</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-176</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-136-BND</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90598GHPFR-G-144-BND</a><br>Description: IC MCU 16BIT 128KB MROM 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90594GPFR-G-131-BND</a><br>Description: IC MCU 16BIT 256KB MROM 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |

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