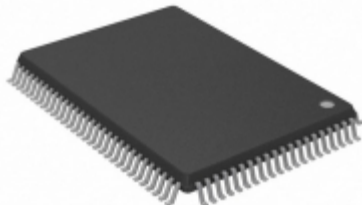


MB90F594APFR-G



Images are for reference only.  
See Product Specifications for product details.  
**Buy MB90F594APFR-G with confidence from Component-World.HK, 1 Year Warranty**



**Part Number:** [MB90F594APFR-G](#)

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

**Description:** IC MCU 16BIT 256KB FLASH 100QFP

**Data sheet:**

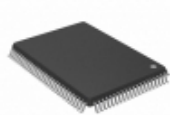
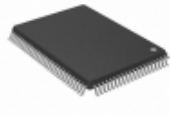
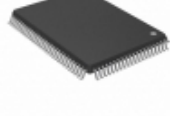
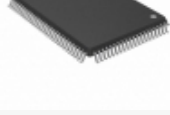
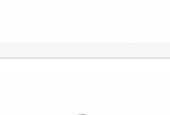
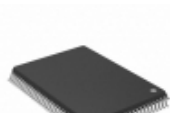
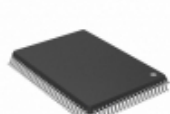
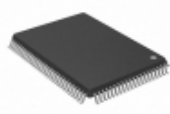
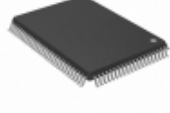
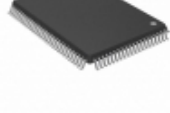
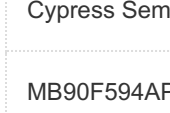
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                |                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MB90F594APFR-G                            | Manufacturer                   | <a href="#">Cypress Semiconductor</a>                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MCU 16BIT 256KB FLASH 100QFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4127 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 <sup>2</sup> MC-16LX MB90590            | RAM Size                       | 6K x 8                                                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FLASH                                     | 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 <sup>2</sup> MC-16LX F <sup>2</sup> MC-16LX MB90590 Microcontroller IC 16-Bit 16MHz 256KB (256K x 8) FLASH 100-PQFP (20x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A/D 8x8/10b                               | Core Size                      | 16-Bit                                                                                                                        |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                        | F <sup>2</sup> MC-16LX                    | Connectivity                   | CANbus, EBI/EMI, SCI, Serial I/O, UART/USART                                                                                  |
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| RELATED PRODUCTS                                                                   |                                                                                            |                                                      |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
|  | Part#: <a href="#">MB90F594GPF-GE1</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GHPFR-GE1</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594APF-G-9001</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GPF-GE1</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GHZPQC-GSE2</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GPFR-G</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GHPF-GSE1</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GPFR-G</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP      | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GHZPFR-GSE1</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GPFR-G-9004</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594APF-G</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GHZPFR-GSE1</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594APFR-G-9003</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GPF-G</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GHPFR-G</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594APF-GE1</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP     | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GHZPFR-GS</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594GHPFR-GE1</a><br>Description: IC MCU 16BIT 256KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F591GHZPFR-GS</a><br>Description: IC MCU 16BIT 384KB FLASH 100QFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB90F594APFR-GE1</a><br>Description: IC MCU 16BIT                       | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |

|                                            |                                           |                         |                      |
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| Related keywords for <b>MB90F594APFR-G</b> |                                           |                         |                      |
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| MB90F594APFR-G download datasheet          | MB90F594APFR-G datasheet                  | MB90F594APFR-G stock    | buy MB90F594APFR-G   |
| Cypress Semiconductor MB90F594APFR-G       | Cypress Semiconductor Corp MB90F594APFR-G |                         |                      |