

MB90F428GCZPFV-GSE1



**Part Number:** MB90F428GCZPFV-GSE1

**Manufacturer:** Cypress Semiconductor

**Description:** IC MCU 16BIT 128KB FLASH 100LQFP

**Data sheet:**

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

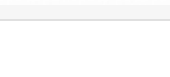
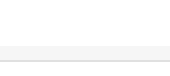
**Ship From:** Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                |                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                 | MB90F428GCZPFV-GSE1                 | Manufacturer                   | Cypress Semiconductor                                                                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 128KB FLASH 100LQFP    | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                          | 4381 pcs                            | Data sheet                     |                                                                                                                                    |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                    | Integrated Circuits (ICs)           | Voltage - Supply (Vcc/Vdd)     | 4.5 V ~ 5.5 V                                                                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                     | 100-LQFP (14x14)                    | Speed                          | 16MHz                                                                                                                              |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                      | F <sup>2</sup> MC-16LX MB90425G (A) | RAM Size                       | 6K x 8                                                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                         | FLASH                               | Program Memory Size            | 128KB (128K x 8)                                                                                                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                 | LCD, POR, PWM, WDT                  | Packaging                      | Tray                                                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                              | 100-LQFP                            | Oscillator Type                | External                                                                                                                           |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                       | -40°C ~ 105°C (TA)                  | Number of I/O                  | 58                                                                                                                                 |
| 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 MB90425G (A) Microcontroller IC 16-Bit 16MHz 128KB (128K x 8) FLASH 100-LQFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                             | A/D 8x8/10b                         | Core Size                      | 16-Bit                                                                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                              | F <sup>2</sup> MC-16LX              | Connectivity                   | CANbus, UART/USART                                                                                                                 |
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|  | Part#: MB90F428GBPMC-G<br>Description: IC MCU 16BIT 128KB FLASH 100LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB90F428GCPMC-G<br>Description: IC MCU 16BIT 128KB FLASH 100LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB90F428GCPFV-GSE1<br>Description: IC MCU 16BIT 128KB FLASH 100LQFP   | Manufacturers: Cypress Semiconductor | RFQ |
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|  | Part#: MB90F428GCPFV-G<br>Description: IC MCU 16BIT 128KB FLASH 100LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
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|  | Part#: MB90F438LSPF-GE1<br>Description: IC MCU 16BIT 128KB FLASH 100QFP      | Manufacturers: Cypress Semiconductor | RFQ |
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