

MB91213APMC-GS-204K5E1



**Part Number:** MB91213APMC-GS-204K5E1

**Manufacturer:** Cypress Semiconductor

**Description:** IC MCU 32BIT 544KB MROM 144LQFP

**Data sheet:**

**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                                                                                                                                                                                                                                                                                                                                                                                                                     | MB91213APMC-GS-204K5E1          | Manufacturer                     | Cypress Semiconductor                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                     | IC MCU 32BIT 544KB MROM 144LQFP | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                              | 13597 pcs                       | Data sheet                       |                                                                                                     |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                        | Integrated Circuits (ICs)       | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 5.5 V                                                                                         |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                         | 144-LQFP (20x20)                | Speed                            | 40MHz                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                          | FR MB91210                      | RAM Size                         | 24K x 8                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                             | Mask ROM                        | Program Memory Size              | 544KB (544K x 8)                                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                     | DMA, WDT                        | Packaging                        | Tray                                                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                  | 144-LQFP                        | Other Names                      | CY91213APMC-GS-204E1<br>MB91213APMC-GS-204E1<br>MB91213APMC-GS-204E1-ND                             |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                 | External                        | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                   | 118                             | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                       |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                 | 28 Weeks                        | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                          |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                     | -                               | Detailed Description             | FR60Lite RISC FR MB91210 Microcontroller IC 32-Bit 40MHz 544KB (544K x 8) Mask ROM 144-LQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                 | A/D 32x10b                      | Core Size                        | 32-Bit                                                                                              |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                  | FR60Lite RISC                   | Connectivity                     | CANbus, LINbus, SPI, UART/USART                                                                     |
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