

MB91213APMC-GS-163K5E1



Part Number: [MB91213APMC-GS-163K5E1](#)  
Manufacturer: [Cypress Semiconductor](#)  
Description: IC MCU 32BIT 544KB MROM 144LQFP  
Data sheet:

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                  |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MB91213APMC-GS-163K5E1                    | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 32BIT 544KB MROM 144LQFP           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11506 pcs                                 | Data sheet                       |                                                                                                     |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Integrated Circuits (ICs)</a> | 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-163E1<br>MB91213APMC-GS-163E1<br>MB91213APMC-GS-163E1-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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| RELATED PRODUCTS                                                                   |                                                                                               |                                                      |                |
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|  | Part#: <a href="#">MB91213APMC-GS-168K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-168E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-165K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-160K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-158E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-167K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-161K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91213APMC-GS-162K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB91213APMC-GS-159K5E1</a><br>Description: IC MCU 32BIT 544KB MROM 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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