

MB91F223SPFV-GS-SPK5E1



Part Number: MB91F223SPFV-GS-SPK5E1

Manufacturer: Cypress Semiconductor

Description: IC MCU 32BIT 512KB FLASH 144LQFP

Data sheet:

RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                  |                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | MB91F223SPFV-GS-SPK5E1           | Manufacturer                     | Cypress Semiconductor                                                                            |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 32BIT 512KB FLASH 144LQFP | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                             | 8733 pcs                         | Data sheet                       |                                                                                                  |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Circuits (ICs)        | Voltage - Supply (Vcc/Vdd)       | 3.5 V ~ 5.5 V                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                        | 144-LQFP (20x20)                 | Speed                            | 32MHz                                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                         | FR MB91220                       | RAM Size                         | 16K x 8                                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                            | Program Memory Size              | 512KB (512K x 8)                                                                                 |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                    | DMA, LCD, PWM, WDT               | Packaging                        | Tray                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                 | 144-LQFP                         | Other Names                      | CY91F223SPFV-GS-SPE1<br>MB91F223SPFV-GS-SPE1<br>MB91F223SPFV-GS-SPE1-ND                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                | External                         | Operating Temperature            | -40°C ~ 105°C (TA)                                                                               |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                  | 122                              | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                    |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                | 17 Weeks                         | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                       |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                | Detailed Description             | FR60Lite RISC FR MB91220 Microcontroller IC 32-Bit 32MHz 512KB (512K x 8) FLASH 144-LQFP (20x20) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                | A/D 24x8/10b, D/A 2x8b           | Core Size                        | 32-Bit                                                                                           |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                 | FR60Lite RISC                    | Connectivity                     | CANbus, EBI/EMI, I <sup>2</sup> C, LINbus, UART/USART                                            |
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|  | Part#: MB91F224PFV-GS-SPK5E1<br>Description: IC MCU 32BIT 768KB FLASH 144LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F223SPFV-GSE1<br>Description: IC MCU 32BIT 512KB FLASH 144LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F223PFV-GSE1<br>Description: IC MCU 32BIT 512KB FLASH 144LQFP       | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F224PFV-GSE1<br>Description: IC MCU 32BIT 768KB FLASH 144LQFP       | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F218SPMC-GTK5E1<br>Description: IC MCU 32BIT 544KB FLASH 144LQFP    | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F248PFV-GE1<br>Description: IC MCU 32BIT 256KB FLASH 144LQFP        | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F128PMC-G-N9E1<br>Description: IC MCU 32BIT 510KB FLASH             | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F224SPFV-GSK5E1<br>Description: IC MCU 32BIT 768KB FLASH 144LQFP    | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F243PFV-GSE1<br>Description: IC MCU FLASH MICOM-0.35 144LQFP        | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F224PFV-GSK5E1<br>Description: IC MCU 32BIT 768KB FLASH 144LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F223PFV-GS-SPK5E1<br>Description: IC MCU 32BIT 512KB FLASH 144LQFP  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F196BGL1-GK6E1<br>Description: IC MICROCONTROLLER                   | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F211BPMC-GS-N2E1<br>Description: IC MCU 32BIT 288KB FLASH 100LQFP   | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F248PFV-GSK5E1<br>Description: IC MCU 32BIT 256KB FLASH 144LQFP     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F196BGL1-GE1<br>Description: IC MCU 32BIT FLASH                     | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F133APMC-G-K7E1<br>Description: IC MICROCONTROLLER                  | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F224SPFV-GSE1<br>Description: IC MCU 32BIT 768KB FLASH 144LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
|  | Part#: MB91F211BPMC-GSE1<br>Description: IC MCU 32BIT 288KB FLASH 100LQFP      | Manufacturers: Cypress Semiconductor | RFQ |
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|  | Part#: MB91F213APMC-GSK5E1<br>Description: IC MCU 32BIT 544KB FLASH 144LQFP    | Manufacturers: Cypress Semiconductor | RFQ |

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