

MB91F585LDPMC-GTK5E1



**Part Number:** [MB91F585LDPMC-GTK5E1](#)

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

**Description:** IC MCU 32BIT 576KB FLASH 144LQFP

**Data sheet:**  [MB91580L Series](#)

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

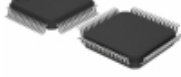
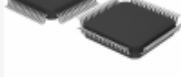
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |                                  |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                  | MB91F585LDPMC-GTK5E1                                                                       | Manufacturer                     | <a href="#">Cypress Semiconductor</a>       |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                  | IC MCU 32BIT 576KB FLASH 144LQFP                                                           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                           | 5464 pcs                                                                                   | Data sheet                       | <a href="#">MB91580L Series</a>             |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">Integrated Circuits (ICs)</a>                                                  | Voltage - Supply (Vcc/Vdd)       | 3.7 V ~ 5.5 V                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                      | 144-LQFP (20x20)                                                                           | Speed                            | 128MHz                                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                       | FR MB91580L                                                                                | RAM Size                         | 56K x 8                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                          | FLASH                                                                                      | Program Memory Size              | 576KB (576K x 8)                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                  | DMA, LVD, POR, PWM, WDT                                                                    | Packaging                        | Tray                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                               | 144-LQFP                                                                                   | Other Names                      | MB91F585LDPMC-GTE1<br>MB91F585LDPMC-GTE1-ND |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                              | External                                                                                   | Operating Temperature            | -40°C ~ 125°C (TA)                          |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                | 111                                                                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                               |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                               | Lead free / RoHS Compliant                                                                 | EEPROM Size                      | 64K x 8                                     |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                         | FR81S FR MB91580L Microcontroller IC 32-Bit 128MHz 576KB (576K x 8) FLASH 144-LQFP (20x20) | Data Converters                  | A/D 24x12b, D/A 1x10b                       |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                    | 32-Bit                                                                                     | Core Processor                   | FR81S                                       |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                 | CANbus, CSIO, EBI/EMI, I <sup>2</sup> C, LINbus, SPI, UART/USART                           |                                  |                                             |
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|  | Part#: <a href="#">MB91F585AMHPMC-GTE1</a><br>Description: IC MCU 32BIT 576KB FLASH 100LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585AMGPMC-GTE1</a><br>Description: IC MCU 32BIT 576KB FLASH 100LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F586LAPMC-GTK5E1</a><br>Description: IC MCU 32BIT 832KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F587LAPMC-GTK5E1</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB91F585ASGPMC1-GTE1</a><br>Description: IC MCU 32BIT 576KB FLASH 64LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F587LBPMC-GTK5E1</a><br>Description: IC MCU 32BIT 1MB FLASH 144LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MB91F579CHSPMC1-GSE1</a><br>Description: IC MCU 32BIT 2MB FLASH 144LQFN   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585ASHPMC1-GTE1</a><br>Description: IC MCU 32BIT 576KB FLASH 64LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F579CMPMC-GSK5E2</a><br>Description: IC MCU 32BIT 2MB FLASH 208LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585PMC-GTK5E1</a><br>Description: IC MCU 32BIT 576KB FLASH 144LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F579CHSPMC-GSK5E1</a><br>Description: IC MCU 32BIT 2MB FLASH 144LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F586LBPMC-GTK5E1</a><br>Description: IC MCU 32BIT 832KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585LCPMC-GTK5E1</a><br>Description: IC MCU 32BIT 576KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585LPMC-GTK5E1</a><br>Description: IC MCU 32BIT 576KB FLASH 144LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F586LCPMC-GTK5E1</a><br>Description: IC MCU 32BIT 832KB FLASH 144LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MB91F585MGPMC-GTE1</a><br>Description: IC MCU 32BIT 576KB FLASH 100LQFP   | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |

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|--------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------------|
| Related keywords for <b>MB91F585LDPMC-GTK5E1</b> |                                                 |                               |                            |
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