

MPC565CVR56



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**Part Number:** [MPC565CVR56](#)

**Manufacturer:** [NXP Semiconductors / Freescale](#)

**Description:** IC MCU 32BIT 1MB FLASH 388BGA

**Data sheet:**  [MPC565,566 Prod Brief](#)

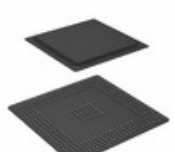
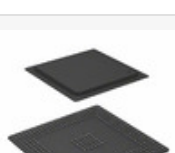
**RoHs Status:** Lead free / RoHS Compliant

**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                                  |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MPC565CVR56                                                                        | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IC MCU 32BIT 1MB FLASH 388BGA                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1257 pcs                                                                           | Data sheet                       | <a href="#">MPC565,566 Prod Brief</a>          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <a href="#">Integrated Circuits (ICs)</a>                                          | Voltage - Supply (Vcc/Vdd)       | 2.5 V ~ 2.7 V                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 388-PBGA (27x27)                                                                   | Speed                            | 56MHz                                          |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MPC5xx                                                                             | RAM Size                         | 36K x 8                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FLASH                                                                              | Program Memory Size              | 1MB (1M x 8)                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | POR, PWM, WDT                                                                      | Packaging                        | Tray                                           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 388-BBGA                                                                           | Other Names                      | 935322699557                                   |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | External                                                                           | Operating Temperature            | -40°C ~ 85°C (TA)                              |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 56                                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                  |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lead free / RoHS Compliant                                                         | EEPROM Size                      | -                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PowerPC MPC5xx Microcontroller IC 32-Bit 56MHz 1MB (1M x 8) FLASH 388-PBGA (27x27) | Data Converters                  | A/D 40x10b                                     |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32-Bit                                                                             | Core Processor                   | PowerPC                                        |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CANbus, EBI/EMI, SCI, SPI, UART/USART                                              | Base Part Number                 | MPC565                                         |
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|  | Part#: <a href="#">MPC565CVR40R2</a><br>Description: IC MCU 32BIT 1MB FLASH 388BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MPC564EVB</a><br>Description: KIT EVAL FOR MPC561/562/563/564     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC566AVR56</a><br>Description: IC MCU 32BIT 1MB FLASH 388BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC564CZP66</a><br>Description: IC MCU 32BIT 512KB FLASH 388BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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|  | Part#: <a href="#">MPC565MVR56</a><br>Description: IC MCU 32BIT 1MB FLASH 388BGA     | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
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