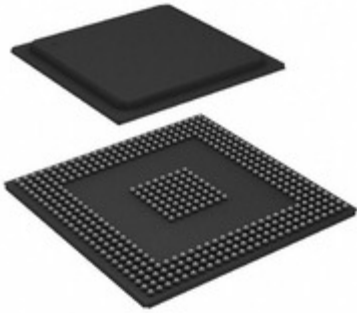


MPC5554AZP132



Images are for reference only.  
See Product Specifications for product details.  
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**Part Number:** [MPC5554AZP132](#)

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

**Description:** IC MCU 32BIT 2MB FLASH 416BGA

**Data sheet:**  [MPC5553,54 Ref Manual](#)  
 [MCP5554 Mask Set Errata](#)  
 [MPC5554 Datasheet](#)

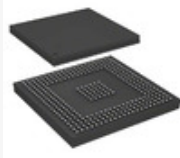
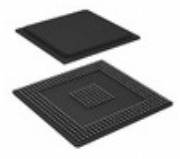
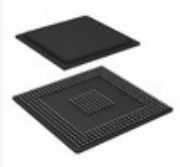
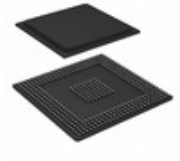
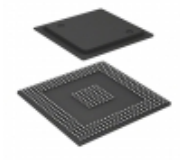
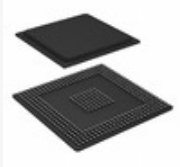
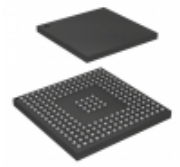
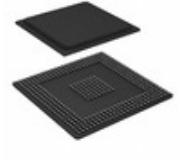
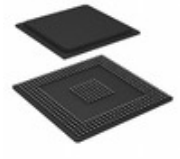
**RoHs Status:** Contains lead / RoHS non-compliant

**Ship From:** Hong Kong

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

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                  |                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MPC5554AZP132                                                                               | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC MCU 32BIT 2MB FLASH 416BGA                                                               | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 442 pcs                                                                                     | Data sheet                       | <a href="#">MPC5553,54 Ref Manual</a><br><a href="#">MCP5554 Mask Set Errata</a><br><a href="#">MPC5554 Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <a href="#">Integrated Circuits (ICs)</a>                                                   | Voltage - Supply (Vcc/Vdd)       | 1.35 V ~ 1.65 V                                                                                                       |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 416-PBGA (27x27)                                                                            | Speed                            | 132MHz                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MPC55xx Qorivva                                                                             | RAM Size                         | 64K x 8                                                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FLASH                                                                                       | Program Memory Size              | 2MB (2M x 8)                                                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DMA, POR, PWM, WDT                                                                          | Packaging                        | Tray                                                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 416-BBGA                                                                                    | Other Names                      | 935313625557                                                                                                          |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | External                                                                                    | Operating Temperature            | -55°C ~ 125°C (TA)                                                                                                    |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 256                                                                                         | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                         |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Contains lead / RoHS non-compliant                                                          | EEPROM Size                      | -                                                                                                                     |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e200z6 MPC55xx Qorivva Microcontroller IC 32-Bit 132MHz 2MB (2M x 8) FLASH 416-PBGA (27x27) | Data Converters                  | A/D 40x12b                                                                                                            |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 32-Bit                                                                                      | Core Processor                   | e200z6                                                                                                                |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CANbus, EBI/EMI, SCI, SPI                                                                   | Base Part Number                 | MPC5554                                                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                      |                                                               |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">MPC5553EVB</a><br>Description: KIT EVAL MPC5553MZP132             | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553MZQ132</a><br>Description: IC MCU 32BIT 1.5MB FLASH 324BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|   | Part#: <a href="#">MPC5554EVBE</a><br>Description: BOARD EVAL FOR MPC5554            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554EVB</a><br>Description: BOARD EVALUATION MPC5554           | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554MVR132R2</a><br>Description: IC MCU 32BIT 2MB FLASH 416BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554MZP132R2</a><br>Description: IC MCU 32BIT 2MB FLASH 416BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553EVBE</a><br>Description: BOARD EVAL FOR MPC5553            | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554EVBISYS</a><br>Description: BOARD EVAL ISYSTEMS MPC5554    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553MVR132</a><br>Description: IC MCU 32BIT 1.5MB FLASH 416BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553MVZ132</a><br>Description: IC MCU 32BIT 1.5MB FLASH 324BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554MZP112</a><br>Description: NXP 32-BIT MCU POWER ARCH CORE  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553MZP132</a><br>Description: IC MCU 32BIT 1.5MB FLASH 416BGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5534MVM80</a><br>Description: IC MCU 32BIT 1MB FLASH 208MAPBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554INT</a><br>Description: BOARD DEMO MPC5554                 | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554MVR132</a><br>Description: IC MCU 32BIT 2MB FLASH 416BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553EVBGHS</a><br>Description: KIT EVAL GREEN HILLS SOFTWARE   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554MZP132</a><br>Description: IC MCU 32BIT 2MB FLASH 416BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5554EVBGHS</a><br>Description: BOARD EVAL GREEN HILLS SOFTWARE | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5534MQ80</a><br>Description: IC MCU 32BIT 1MB FLASH 324TEBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">MPC5553EVBISYS</a><br>Description: KIT EVAL ISYSTEMS MPC5553      | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <a href="#">RFQ</a> |

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| NXP USA Inc. MPC5554AZP132                   |                                  |                         |                                             |