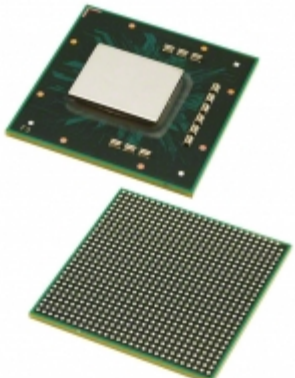


MPC8536EBVTAKGA



Images are for reference only.  
See Product Specifications for product details.  
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Part Number: MPC8536EBVTAKGA

Manufacturer: NXP Semiconductors / Freescale

Description: IC MPU MPC85XX 600MHZ 783FCBGA

Data sheet:  [MPIC Double Interrupt Errata](#)  
 [MPC8536E Fact Sheet](#)  
 [TBI Link Status Errata](#)  
 [MPC8536E Ref Manual](#)  
 [MPC8536E](#)

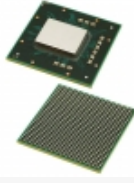
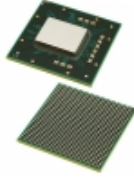
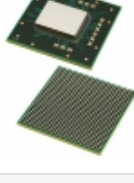
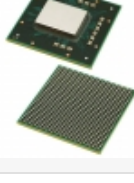
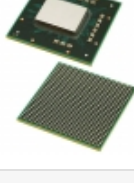
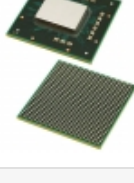
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                |                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MPC8536EBVTAKGA                           | Manufacturer                   | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                   |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MPU MPC85XX 600MHZ 783FCBGA            | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                       |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5697 pcs                                  | Data sheet                     | <a href="#">MPIC Double Interrupt Errata</a><br><a href="#">MPC8536E Fact Sheet</a><br><a href="#">TBI Link Status Errata</a><br><a href="#">MPC8536E Ref Manual</a><br><a href="#">MPC8536E</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a> | Voltage - I/O                  | 1.8V, 2.5V, 3.3V                                                                                                                                                                                 |
| USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | USB 2.0 (3)                               | Supplier Device Package        | 783-FCPBGA (29x29)                                                                                                                                                                               |
| Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 600MHz                                    | Series                         | MPC85xx                                                                                                                                                                                          |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cryptography                              | SATA                           | SATA 3Gbps (2)                                                                                                                                                                                   |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DDR2, DDR3                                | Packaging                      | Tray                                                                                                                                                                                             |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 783-BBGA, FCBGA                           | Other Names                    | MPC8536EBVTAKG<br>MPC8536EBVTAKG-ND                                                                                                                                                              |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0°C ~ 105°C (TA)                          | Number of Cores/Bus Width      | 1 Core, 32-Bit                                                                                                                                                                                   |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                                                                                                                       |
| Graphics Acceleration                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No                                        | Ethernet                       | 10/100/1000 Mbps (2)                                                                                                                                                                             |
| Display & Interface Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                         | Detailed Description           | PowerPC e500 Microprocessor IC MPC85xx 1 Core, 32-Bit 600MHz 783-FCPBGA (29x29)                                                                                                                  |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PowerPC e500                              | Co-Processors/DSP              | Security; SEC                                                                                                                                                                                    |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MPC8536                                   | Additional Interfaces          | DUART, I²C, MMC/SD, PCI, SPI                                                                                                                                                                     |
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| RELATED PRODUCTS                                                                   |                                                                                        |                                                               |                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | Part#: <a href="#">MPC8536ECVJATHA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTAUL</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536ECVJAVLA</a><br>Description: IC MPU MPC85XX 1.5GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTATHA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJAVLA</a><br>Description: IC MPU MPC85XX 1.5GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVTATHA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVTAQGA</a><br>Description: IC MPU MPC85XX 1.0GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536ECVJAQGA</a><br>Description: IC MPU MPC85XX 1.0GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTAVLA</a><br>Description: IC MPU MPC85XX 1.5GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJAULA</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVTAVLA</a><br>Description: IC MPU MPC85XX 1.5GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTAULA</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJATHA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJANGA</a><br>Description: IC MPU MPC85XX 800MHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536ECVJAKGA</a><br>Description: IC MPU MPC85XX 600MHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJAKGA</a><br>Description: IC MPU MPC85XX 600MHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MPC8536ECVJAULA</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVJAQGA</a><br>Description: IC MPU MPC85XX 1.0GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EBVTAULA</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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