

MPC8536EAVTATH



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Part Number: [MPC8536EAVTATH](#)

Manufacturer: [NXP Semiconductors / Freescale](#)

Description: IC MPU MPC85XX 1.25GHZ 783FCBGA

Data sheet:  [SATA-A-006187 Errata](#)  
 [MPIC Double Interrupt Errata](#)  
 [MPC8536E Fact Sheet](#)  
 [TBI Link Status Errata](#)  
 [MPC8536E Ref Manual](#)  
 [MPC8536E](#)

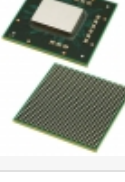
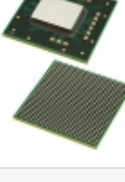
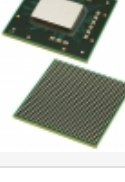
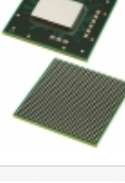
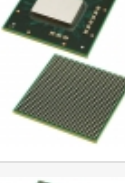
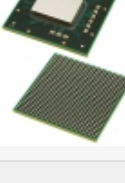
RoHS Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                  |                                  |                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MPC8536EAVTATH                                                                   | Manufacturer                     | <a href="#">NXP Semiconductors / Freescale</a>                                                                                                                                                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MPU MPC85XX 1.25GHZ 783FCBGA                                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4123 pcs                                                                         | Data sheet                       | <a href="#">SATA-A-006187 Errata</a><br><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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.25GHz                                                                          | Series                           | MPC85xx                                                                                                                                                                                                                                  |
| Security Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cryptography                                                                     | SATA                             | SATA 3Gbps (2)                                                                                                                                                                                                                           |
| RAM Controllers                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DDR2, DDR3                                                                       | Packaging                        | Tray                                                                                                                                                                                                                                     |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 783-BBGA, FCBGA                                                                  | Operating Temperature            | 0°C ~ 90°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 1.25GHz 783-FCPBGA (29x29) | Core Processor                   | PowerPC e500                                                                                                                                                                                                                             |
| Co-Processors/DSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Security; SEC                                                                    | Base Part Number                 | MPC8536                                                                                                                                                                                                                                  |
| Additional Interfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DUART, I <sup>2</sup> C, MMC/SD, PCI, SPI                                        |                                  |                                                                                                                                                                                                                                          |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                               |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------|
|  | 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="#">MPC8536EBVJAULA</a><br>Description: IC MPU MPC85XX 1.333GHZ 783BGA   | 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> |
|  | 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="#">MPC8536EAVTATHA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA  | 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="#">MPC8536EAVTAKGA</a><br>Description: IC MPU MPC85XX 600MHZ 783FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTANGA</a><br>Description: IC MPU MPC85XX 800MHZ 783FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTAKG</a><br>Description: IC MPU MPC85XX 600MHZ 783FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTANG</a><br>Description: IC MPU MPC85XX 800MHZ 783FCBGA    | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVJAQGA</a><br>Description: IC MPU SOC 32BIT 1GHZ 783FCBGA   | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVJAULA</a><br>Description: IC MPU SOC 32B 1.33GHZ 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="#">MPC8536EAVTAQGA</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="#">MPC8536EAVJATHA</a><br>Description: IC MPU SOC 32BIT 1.2GHZ 783FCBGA | 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> |
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|  | Part#: <a href="#">MPC8536EAVJAVLA</a><br>Description: IC MPU SOC 32BIT 1.5GHZ 783FCBGA | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MPC8536EAVTATGA</a><br>Description: IC MPU MPC85XX 1.25GHZ 783FCBGA  | Manufacturers: <a href="#">NXP Semiconductors / Freescale</a> | <div>RFQ</div> |

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