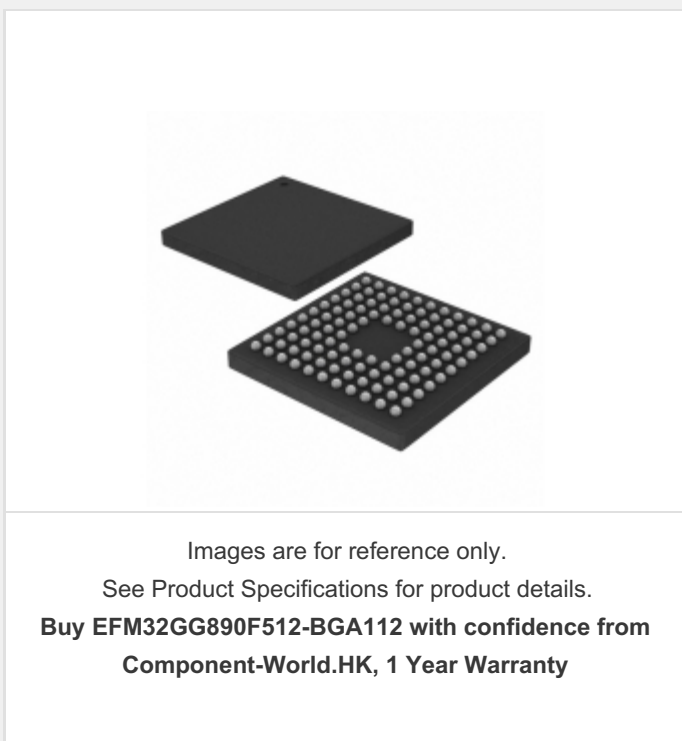


## EFM32GG890F512-BGA112



**SILICON LABS**  
**Part Number:** [EFM32GG890F512-BGA112](#)  
**Manufacturer:** [Energy Micro \(Silicon Labs\)](#)  
**Description:** IC MCU 32BIT 512KB FLASH 112BGA  
**Data sheet:** [PDF EFM32GG Ref Manual](#)  
[PDF EFM32GG890](#)  
[PDF EFM32 Product Introduction](#)

**RoHS Status:** Lead free / RoHS Compliant  
**Ship From:** Hong Kong  
**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

[Request For Quotation](#)

| PRODUCT PARAMETER                     |  |   |  |
|---------------------------------------|--|---|--|
| <b>Part Number</b>                    | EFM32GG890F512-BGA112  | <b>Manufacturer</b>                     | <a href="#">Energy Micro (Silicon Labs)</a>  |
| <b>Description</b>                    | IC MCU 32BIT 512KB FLASH 112BGA  | <b>Lead Free Status / RoHS Status</b>   | Lead free / RoHS Compliant   |
| <b>Quantity Available</b>             | 17433 pcs  | <b>Data sheet</b>                       | <a href="#">EFM32GG Ref Manual</a><br><a href="#">EFM32GG890</a><br><a href="#">EFM32 Product Introduction</a> |
| <b>Category</b>                       | <a href="#">Integrated Circuits (ICs)</a>  | <b>Voltage - Supply (Vcc/Vdd)</b>       | 1.85 V ~ 3.8 V   |
| <b>Supplier Device Package</b>        | 112-BGA (10x10)  | <b>Speed</b>                            | 48MHz  |
| <b>Series</b>                         | Giant Gecko  | <b>RAM Size</b>                         | 128K x 8   |
| <b>Program Memory Type</b>            | FLASH  | <b>Program Memory Size</b>              | 512KB (512K x 8)   |
| <b>Peripherals</b>                    | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT  | <b>Packaging</b>                        | Tape & Reel (TR)   |
| <b>Package / Case</b>                 | 112-LFBGA  | <b>Other Names</b>                      | EFM32GG890F512<br>EFM32GG890F512-ND  |
| <b>Oscillator Type</b>                | Internal   | <b>Operating Temperature</b>            | -40°C ~ 85°C (TA)  |
| <b>Number of I/O</b>                  | 90   | <b>Moisture Sensitivity Level (MSL)</b> | 3 (168 Hours)  |
| <b>Lead Free Status / RoHS Status</b> | Lead free / RoHS Compliant   | <b>EEPROM Size</b>                      | -  |
| <b>Detailed Description</b>           | ARM® Cortex®-M3 Giant Gecko Microcontroller IC 32-Bit 48MHz 512KB (512K x 8) FLASH 112-BGA (10x10) | <b>Data Converters</b>                  | A/D 8x12b, D/A 2x12b   |
| <b>Core Size</b>                      | 32-Bit   | <b>Core Processor</b>                   | ARM® Cortex®-M3  |
| <b>Connectivity</b>                   | EBI/EMI, I <sup>2</sup> C, IrDA, SmartCard, SPI, UART/USART  |   |  |

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### RELATED PRODUCTS

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|  | <b>Part#:</b> <a href="#">EFM32GG895F512-BGA120T</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 120BGA     | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG895F512-BGA120</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 120BGA      | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG895F1024G-E-BGA120</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 120BGA    | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F1024-BGA112</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 112BGA       | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F1024G-E-BGA112R</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 112BGA   | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG880F512G-E-QFP100</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 100LQFP  | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG895F1024G-E-BGA120R</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 120BGA   | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F1024G-E-BGA112</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 112BGA    | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG880F512-QFP100T</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 100LQFP    | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F1024-BGA112T</a><br><b>Description:</b> IC MCU 32BIT 1MB FLASH 112BGA      | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F512G-E-BGA112</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 112BGA   | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | <b>Part#:</b> <a href="#">EFM32GG890F512G-E-BGA112R</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 112BGA  | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | <b>Part#:</b> <a href="#">EFM32GG880F512G-E-QFP100R</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 100LQFP | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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|  | <b>Part#:</b> <a href="#">EFM32GG880F512-QFP100</a><br><b>Description:</b> IC MCU 32BIT 512KB FLASH 100LQFP     | <b>Manufacturers:</b> <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
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