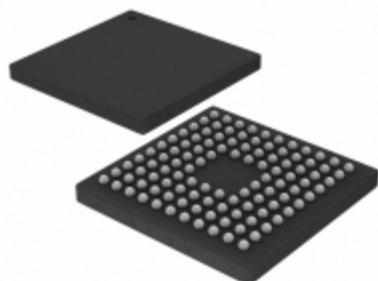


EFM32LG990F256G-E-BGA112R



Images are for reference only.  
See Product Specifications for product details.  
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SILICON LABS

Part Number: [EFM32LG990F256G-E-BGA112R](#)

Manufacturer: [Energy Micro \(Silicon Labs\)](#)

Description: IC MCU 32BIT 256KB FLASH 112BGA

Data sheet:  [EFM32LG Ref Manual](#)  
 [EFM32LG990 Errata, Chip rev. E](#)  
 [EFM32LG990 Errata History](#)  
 [EFM32\(LG\) Errata](#)  
 [EFM32\(LG\) Family Datasheet](#)

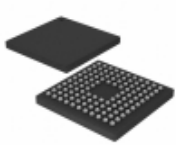
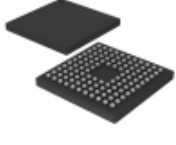
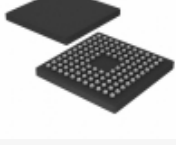
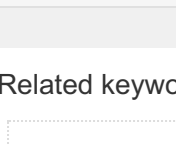
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                        |                                 |                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                    | EFM32LG990F256G-E-BGA112R                                                                              | Manufacturer                    | <a href="#">Energy Micro (Silicon Labs)</a>                                                                                                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 32BIT 256KB FLASH 112BGA                                                                        | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                          |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                             | 20018 pcs                                                                                              | Data sheet                      | <a href="#">EFM32LG Ref Manual</a><br><a href="#">EFM32LG990 Errata, Chip rev. E</a><br><a href="#">EFM32LG990 Errata History</a><br><a href="#">EFM32(LG) Errata</a><br><a href="#">EFM32(LG) Family Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                       | <a href="#">Integrated Circuits (ICs)</a>                                                              | Voltage - Supply (Vcc/Vdd)      | 1.85 V ~ 3.8 V                                                                                                                                                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                        | 112-LFBGA (10x10)                                                                                      | Speed                           | 48MHz                                                                                                                                                                                                               |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                         | Leopard Gecko                                                                                          | RAM Size                        | 32K x 8                                                                                                                                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                                                                                  | Program Memory Size             | 256KB (256K x 8)                                                                                                                                                                                                    |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT                                                        | Packaging                       | Tape & Reel (TR)                                                                                                                                                                                                    |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                 | 112-LFBGA                                                                                              | Oscillator Type                 | Internal                                                                                                                                                                                                            |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                          | -40°C ~ 85°C (TA)                                                                                      | Number of I/O                   | 87                                                                                                                                                                                                                  |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                               | 3 (168 Hours)                                                                                          | Manufacturer Standard Lead Time | 6 Weeks                                                                                                                                                                                                             |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                 | Lead free / RoHS Compliant                                                                             | EEPROM Size                     | -                                                                                                                                                                                                                   |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                           | ARM® Cortex®-M3 Leopard Gecko Microcontroller IC 32-Bit 48MHz 256KB (256K x 8) FLASH 112-LFBGA (10x10) | Data Converters                 | A/D 8x12b, D/A 2x12b                                                                                                                                                                                                |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                      | 32-Bit                                                                                                 | Core Processor                  | ARM® Cortex®-M3                                                                                                                                                                                                     |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                   | EBI/EMI, I²C, IrDA, SmartCard, SPI, UART/USART, USB                                                    |                                 |                                                                                                                                                                                                                     |
| Component-World.com is a Reliable Stocking Distributor of Electronic Components. We specialize in all Energy Micro (Silicon Labs) series electronic components. We have 20018 pieces of Energy Micro (Silicon Labs) EFM32LG990F256G-E-BGA112R in stock available now. Request a quote from electronics components distributor at Component-World.com, our sales team will contact you within 24 hours.<br>RFQ Email: info@Components-World.com |                                                                                                        |                                 |                                                                                                                                                                                                                     |

| RELATED PRODUCTS                                                                   |                                                                                                  |                                                            |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------|
|  | Part#: <a href="#">EFM32LG990F256-BGA112T</a><br>Description: IC MCU 32BIT 256KB FLASH 112BGA    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG980F64G-E-QFP100R</a><br>Description: IC MCU 32BIT 64KB FLASH 100LQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F256G-E-BGA112</a><br>Description: IC MCU 32BIT 256KB FLASH 112BGA  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F256-BGA112</a><br>Description: IC MCU 32BIT 256KB FLASH 112BGA     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG980F64-QFP100T</a><br>Description: IC MCU 32BIT 64KB FLASH 100LQFP     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F128-BGA120T</a><br>Description: IC MCU 32BIT 128KB FLASH 120BGA    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F128G-E-BGA112R</a><br>Description: IC MCU 32BIT 128KB FLASH 112BGA | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F128G-E-BGA120R</a><br>Description: IC MCU 32BIT 128KB FLASH 120BGA | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F64-BGA112T</a><br>Description: IC MCU 32BIT 64KB FLASH 112BGA      | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F128-BGA120</a><br>Description: IC MCU 32BIT 128KB FLASH 120BGA     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F256-BGA120</a><br>Description: IC MCU 32BIT 256KB FLASH 120BGA     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F256-BGA120T</a><br>Description: IC MCU 32BIT 256KB FLASH 120BGA    | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F64G-E-BGA112R</a><br>Description: IC MCU 32BIT 64KB FLASH 112LFBGA | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F128-BGA112</a><br>Description: IC MCU 32BIT 128KB FLASH 112BGA     | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG995F128G-E-BGA120</a><br>Description: IC MCU 32BIT 128KB FLASH 120BGA  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">EFM32LG990F128G-E-BGA112</a><br>Description: IC MCU 32BIT 128KB FLASH 112BGA  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F64G-E-BGA112</a><br>Description: IC MCU 32BIT 64KB FLASH 112LFBGA  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG980F64G-E-QFP100</a><br>Description: IC MCU 32BIT 64KB FLASH 100LQFP   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |
|  | Part#: <a href="#">EFM32LG990F64-BGA112</a><br>Description: IC MCU 32BIT 64KB FLASH 112BGA       | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <div>RFQ</div> |

|                                                       |                                                       |                                                |                                                       |
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