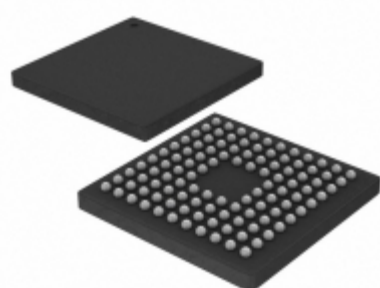


EFM32GG990F512G-E-BGA112R



**SILICON LABS**

Part Number: [EFM32GG990F512G-E-BGA112R](#)

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

Description: IC MCU 32BIT 512KB FLASH 112BGA

Data sheet:  [EFM32GG Ref Manual](#)
 [EFM32GG990](#)
 [EFM32 Product Introduction](#)

RoHs Status: Lead free / RoHS Compliant

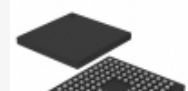
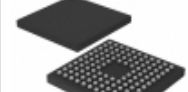
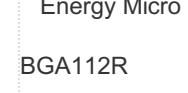
Ship From: Hong Kong

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

Images are for reference only.
See Product Specifications for product details.
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PRODUCT PARAMETER			
Part Number	EFM32GG990F512G-E-BGA112R	Manufacturer	Energy Micro (Silicon Labs)
Description	IC MCU 32BIT 512KB FLASH 112BGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	17000 pcs	Data sheet	EFM32GG Ref Manual EFM32GG990 EFM32 Product
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	Introduction 1.98 V ~ 3.3 V
Supplier Device Package	112-BGA (10x10)	Speed	48MHz
Series	Giant Gecko	RAM Size	128K x 8
Program Memory Type	FLASH	Program Memory Size	512KB (512K x 8)
Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	Packaging	Tape & Reel (TR)
Package / Case	112-TFBGA	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 Giant Gecko Microcontroller IC 32-Bit 48MHz 512KB (512K x 8) FLASH 112-BGA (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		
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	Part#: EFM32GG995F1024G-E-BGA120R Description: IC MCU 32BIT 1MB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F512G-E-BGA120R Description: IC MCU 32BIT 512KB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F512G-E-BGA120 Description: IC MCU 32BIT 512KB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F1024-BGA120 Description: IC MCU 32BIT 1MB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F1024-BGA120T Description: IC MCU 32BIT 1MB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
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	Part#: EFM32HG108F32G-A-QFN24 Description: IC MCU 32BIT 32KB FLASH 24QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F1024G-E-BGA120 Description: IC MCU 32BIT 1MB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F512-BGA120 Description: IC MCU 32BIT 512KB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F512-BGA112 Description: IC MCU 32BIT 512KB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32HG108F32G-A-QFN24R Description: IC MCU 32BIT 32KB FLASH 24QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F1024G-E-BGA112 Description: IC MCU 32BIT 1MB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG995F512-BGA120T Description: IC MCU 32BIT 512KB FLASH 120BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F1024-BGA112 Description: IC MCU 32BIT 1MB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F1024-BGA112T Description: IC MCU 32BIT 1MB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F512G-E-BGA112 Description: IC MCU 32BIT 512KB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG980F512G-E-QFP100 Description: IC MCU 32BIT 512KB FLASH 100LQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG980F512-QFP100T Description: IC MCU 32BIT 512KB FLASH 100LQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG990F1024G-E-BGA112R Description: IC MCU 32BIT 1MB FLASH 112BGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: EFM32GG980F512G-E-QFP100R Description: IC MCU 32BIT 512KB FLASH 100LQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ

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