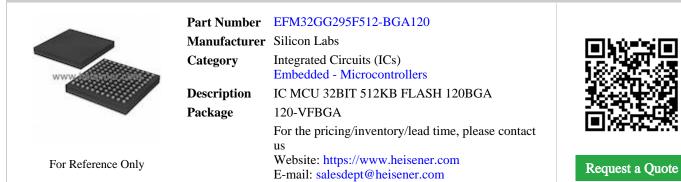


# EFM32GG295F512-BGA120

### EFM32GG295F512-BGA120 Information



### **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



## EFM32GG295F512-BGA120 Specifications

ManufacturerSilicon LabsCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage120-VFBGASeriesGiant GeckoCore ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, 12C, 1rDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-SGA (7x7)	-		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage120-VFBGASeriesGiant GeckoCore ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USARTPreipheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-GGA (7x7)	Manufacturer Part Number	EFM32GG295F512-BGA120	
Embedded - MicrocontrollersPackage120-VFBGASeriesGiant GeckoCore ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, 12C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case120-VFBGASupplier Device Package120-SGA (7x7)	Manufacturer	Silicon Labs	
Package120-VFBGASeriesGiant GeckoCore ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, 12C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-Nutage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator Type-Qorating Temperature-0°C ~ 85°C (TA)Package / Case120-VFBGASupplier Device Package120-VFBGA	Category	Integrated Circuits (ICs)	
SeriesGiant GeckoCore ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator Type-Program Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)		Embedded - Microcontrollers	
Core ProcessorARM? Cortex?-M3Core Size32-BitSpeed48MHzConnectivityEBI/EMI, 12C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Package	120-VFBGA	
Core Size32-BitSpeed48MHzConnectivityEBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Series	Giant Gecko	
Speed48MHzConnectivityEBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Core Processor	ARM? Cortex?-M3	
ConnectivityEBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTPurper93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Speed	48MHz	
Number of I/O93Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Connectivity	EBI/EMI, I2C, IrDA, SmartCard, SPI, UART/USART	
Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Number of I/O	93	
EEPROM Size-RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Program Memory Size	512KB (512K x 8)	
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.85 V ~ 3.8 VData ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	EEPROM Size	-	
Data ConvertersA/D 8x12b, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	RAM Size	128K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Voltage - Supply (Vcc/Vdd)	1.85 V ~ 3.8 V	
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Data Converters	A/D 8x12b, D/A 2x12b	
Mounting Type-Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Oscillator Type	Internal	
Package / Case120-VFBGASupplier Device Package120-BGA (7x7)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package120-BGA (7x7)	Mounting Type	-	
	Package / Case	120-VFBGA	
Report errors?	Supplier Device Package	120-BGA (7x7)	
Report crois:			Report errors?

### EFM32GG295F512-BGA120 Guarantees



**Quality Guarantees** 

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### EFM32GG295F512-BGA120 Payment Methods



If you have any question about EFM32GG295F512-BGA120, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com