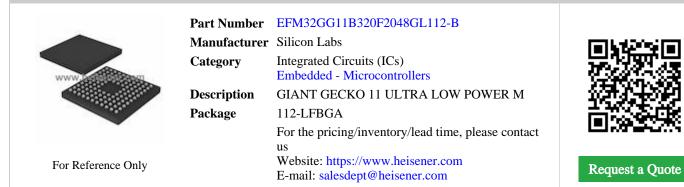


EFM32GG11B320F2048GL112-B

EFM32GG11B320F2048GL112-B 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.



EFM32GG11B320F2048GL112-B Specifications

Manufacturer Silicon Labs Manufacturer Silicon Labs Category Integrated Circuits (ICs) Embedded - Microcontrollers Package 112-LFBGA Series Giant Gecko S1 Core Processor ARM® Cortex®-M4 Core Size 32-Bit Speed 72MHz Connectivity CANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USART Proprimerals Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT Number of I/O 90 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size - RAM Size 512K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.8 V Data Converters A/D 16x12b SAR, D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 112-LFBGA Supplier Device Package 112-LFBGA			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage112-LFBGASeriesGiant Gecko S1Core ProcessorARM@ Cortex@-M4Core Size32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, IPC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-Nutage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Manufacturer Part Number	EFM32GG11B320F2048GL112-B	
Embedded - MicrocontrollersPackage112-LFBGASeriesGiant Gecko S1Core ProcessorARM® Cortex®-M4Core Size32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, IPC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case112-EBGASupplier Device Package112-BGA (10x10)	Manufacturer	Silicon Labs	
Package112-LFBGASeriesGiant Gecko S1Core ProcessorARM® Cortex®-M4Core Size32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)PERPOM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersAUD 16x12b SAR, D/A 2x12bOscillator Type-Mounting Type-Package / Case112-LFBGASupplier Device Package12-BGA (10x10)	Category	Integrated Circuits (ICs)	
SeriesGiant Gecko S1SeriesARM® Cortex®-M4Core Processor32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)		Embedded - Microcontrollers	
Core ProcessorARM® Cortex®-M4Core Size32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-Nutber of Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type112-LFBGASupplier Device Package112-BGA (10x10)	Package	112-LFBGA	
Core Size32-BitSpeed72MHzConnectivityCANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case112-EFBGASupplier Device Package112-BGA (10x10)	Series	Giant Gecko S1	
Speed72MHzConnectivityCANbus, EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Core Processor	ARM® Cortex®-M4	
ConnectivityCANbus, EBI/EMI, IPC, IrDA, LINbus, SmartCard, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type112-LFBGASupplier Device Package112-BGA (10x10)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, LCD, POR, PWM, WDTNumber of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Speed	72MHz	
Number of I/O90Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Connectivity	CANbus, EBI/EMI, I2C, IrDA, LINbus, SmartCard, SPI, UART/USART	
Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Peripherals	Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Number of I/O	90	
EEPROM Size-RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Program Memory Size	2MB (2M x 8)	
RAM Size512K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.8 VData ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	EEPROM Size	-	
Data ConvertersA/D 16x12b SAR, D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	RAM Size	512K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.8 V	
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Data Converters	A/D 16x12b SAR, D/A 2x12b	
Mounting Type-Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Oscillator Type	Internal	
Package / Case112-LFBGASupplier Device Package112-BGA (10x10)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package 112-BGA (10x10)	Mounting Type	-	
	Package / Case	112-LFBGA	
Report errors?	Supplier Device Package	112-BGA (10x10)	
			Report errors?

EFM32GG11B320F2048GL112-B 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.

If you have any question about EFM32GG11B320F2048GL112-B, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com