

# LM3S1D21-IBZ80-A2T

#### LM3S1D21-IBZ80-A2T Information

	 LM3S1D21-IBZ80-A2T Texas Instruments Integrated Circuits (ICs) Embedded - Microcontrollers IC MCU 32BIT 512KB FLASH 108BGA 108-LFBGA For the pricing/inventory/lead time, please contact us	
For Reference Only	Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request a Quote

# **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.



## LM3S1D21-IBZ80-A2T Specifications

ManufacturerTexas InstrumentsCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage108-LFBGAStelfaris? ARM? Cortex?-M3S 1000Core ProcessorARM? Cortex?-M3S 1000Core Size32-BitSped80MHzConnectivityEBI/EMI, 12C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPreipheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)EEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOperating Temperature4.0°C ~ 85°C (TA)Munting Type5.1Package / Case108-LFBGA				
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage108-LFBGAStelfaris? ARM? Cortex?-M3S 1000Core ProcessorARM? Cortex?-M3S 1000Core Size32-BitSpeed80MHzConnectivityEBI/EMI, 12C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPreipheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-BGA (10x10)	Manufacturer Part Number	LM3S1D21-IBZ80-A2T		
IndextedEmbedded - MicrocontrollersPackage108-LFBGASeriesStellaris? ARM? Cortex?-M3S 1000Core ProcessorARM? Cortex?-M3Core Size32-BitSpeed80MHzConnectivityEBI/EMI, 12C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Manufacturer	Texas Instruments		
Package108-LFBGASeriesStellaris? ARM? Cortex?-M3S 1000Core ProcessorARM? Cortex?-M3S 1000Core Size32-BitSpeed80MHzConcetivityEBI/EMI, 12C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Category	Integrated Circuits (ICs)		
SeriesStellaris? ARM? Cortex?-M3S 1000Core ProcessorARM? Cortex?-M3Core Size32-BitSpeed80MHzConnectivityEBI/EMI, I2C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltag - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case108-LFBGASupplier Device Package108-BGA (10x10)		Embedded - Microcontrollers		
Core ProcessorARM? Cortex?-M3Core Size32-BitSpeed80MHzConnectivityEBI/EMI, I2C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Package	108-LFBGA		
Core Size32-BitSpeed80MHzConnectivityEBI/EMI, I2C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-BGA (10x10)	Series	Stellaris? ARM? Cortex?-M3S 1000		
Speed80MHzConnectivityEBI/EMI, 12C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Core Processor	ARM? Cortex?-M3		
ConnectivityEBI/EMI, I2C, IrDA, LIN, Microwire, SPI, SSI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type108-LFBGASupplier Device Package108-BGA (10x10)	Core Size	32-Bit		
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O67Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Speed	80MHz		
Number of I/O 67   Program Memory Size 512KB (512K x 8)   Program Memory Type FLASH   EEPROM Size -   RAM Size 96K x 8   Voltage - Supply (Vcc/Vdd) 1.235 V ~ 1.365 V   Data Converters A/D 8x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Package / Case 108-LFBGA   Supplier Device Package 108-BGA (10x10)	Connectivity	EBI/EMI, I2C, IrDA, LIN, Microwire, SPI, SSI, UART/USART		
Program Memory Size512KB (512K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT		
Program Memory TypeFLASHEEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Number of I/O	67		
EEPROM Size-RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Program Memory Size	512KB (512K x 8)		
RAM Size96K x 8Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Program Memory Type	FLASH		
Voltage - Supply (Vcc/Vdd)1.235 V ~ 1.365 VData ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	EEPROM Size	-		
Data ConvertersA/D 8x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	RAM Size	96K x 8		
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Voltage - Supply (Vcc/Vdd)	1.235 V ~ 1.365 V		
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Data Converters	A/D 8x12b		
Mounting Type-Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Oscillator Type	Internal		
Package / Case108-LFBGASupplier Device Package108-BGA (10x10)	Operating Temperature	-40°C ~ 85°C (TA)		
Supplier Device Package108-BGA (10x10)	Mounting Type	-		
	Package / Case	108-LFBGA		
Report errors?	Supplier Device Package	108-BGA (10x10)		
			Report errors?	

#### LM3S1D21-IBZ80-A2T 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.

DISCOVER

#### LM3S1D21-IBZ80-A2T Payment Methods



### LM3S1D21-IBZ80-A2T Shipping Methods



If you have any question about LM3S1D21-IBZ80-A2T, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com