

# CY8C3446LTI-083

#### CY8C3446LTI-083 Information





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# **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.



# CY8C3446LTI-083 Specifications

ManufacturerCypress Semiconductor CorpCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage48-VFQFN Exposed PadSeriesPSOC? 3 CY8C34xxCore Processor8051Core Size8-BitSpeed50MHzConnectivityEBI/EMI, 12C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory TypeFLASHEEPROM SizeXx 8RAM SizeSK x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOperating Temperature4.0°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed Pad		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage48-VFQFN Exposed PadSeriesPSOC? 3 CY8C34xxCore Processor8051Core Size8-BitSpeed50MHzConnectivityEBI/EMI, 12C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Nutage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Manufacturer Part Number	CY8C3446LTI-083
Embedded - MicrocontrollersPackage48-VFQFN Exposed PadSeriesPSOC? 3 CY8C34xxCore Processor8051Core Size8-BitSpeed50MHzConnectivityEBI/EMI, 12C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Manufacturer	Cypress Semiconductor Corp
PackageHarver MannerPackage48-VFQFN Exposed PadSeriesPSOC? 3 CY8C34xxCore Processor8051Core Size8-BitSpeed50MHzConcetivityEBI/EMI, I2C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature440°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Category	Integrated Circuits (ICs)
SeriesPSOC? 3 CY8C34xxCore Processor8051Core Size8-BitSpeed50MHzConnectivityEBI/EMI, 12C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersAD 1x12b, D/A 2x8bOscillator Type-Program Temperature-40°C ~ 85°C (TA)Mounting Type48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)		Embedded - Microcontrollers
Core Processor8051Core Size8-BitSpeed50MHzConnectivityEBI/EMI, I2C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator Type-Porating Temperature-Prokage / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Package	48-VFQFN Exposed Pad
Core Size8-BitSpeed50MHzConnectivityEBI/EMI, I2C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator Type-Querating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Series	PSOC? 3 CY8C34xx
Speed50MHzConnectivityEBI/EMI, I2C, LIN, SPI, UART/USARTPeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Core Processor	8051
Connectivity EBI/EMI, 12C, LIN, SPI, UART/USART   Peripherals CapSense, DMA, LCD, POR, PWM, WDT   Number of I/O 25   Program Memory Size 64KB (64K x 8)   Program Memory Type FLASH   EEPROM Size 2K x 8   RAM Size 8K x 8   Voltage - Supply (Vcc/Vdd) 1.71 V ~ 5.5 V   Data Converters A/D 1x12b, D/A 2x8b   Oscillator Type -   Package / Case 48-VFQFN Exposed Pad   Supplier Device Package 48-QFN (7x7)	Core Size	8-Bit
PeripheralsCapSense, DMA, LCD, POR, PWM, WDTNumber of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator Type-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Speed	50MHz
Number of I/O25Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Connectivity	EBI/EMI, I2C, LIN, SPI, UART/USART
Program Memory Size64KB (64K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Peripherals	CapSense, DMA, LCD, POR, PWM, WDT
Program Memory TypeFLASHEEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Number of I/O	25
EEPROM Size2K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Program Memory Size	64KB (64K x 8)
RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)1.71 V ~ 5.5 VData ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	EEPROM Size	2K x 8
Data ConvertersA/D 1x12b, D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	RAM Size	8K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Voltage - Supply (Vcc/Vdd)	1.71 V ~ 5.5 V
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Data Converters	A/D 1x12b, D/A 2x8b
Mounting Type-Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Oscillator Type	Internal
Package / Case48-VFQFN Exposed PadSupplier Device Package48-QFN (7x7)	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package48-QFN (7x7)	Mounting Type	-
	Package / Case	48-VFQFN Exposed Pad
Report errors?	Supplier Device Package	48-QFN (7x7)
		Report errors <sup>6</sup>

#### CY8C3446LTI-083 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 EUARANTEE

#### **Service Guarantees**

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

#### CY8C3446LTI-083 Payment Methods



# CY8C3446LTI-083 Shipping Methods



If you have any question about CY8C3446LTI-083, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com