

# STM32L041K6U7

#### STM32L041K6U7 Information

Contraction of the second seco	 STM32L041K6U7 STMicroelectronics Integrated Circuits (ICs) Embedded - Microcontrollers IC MCU 32BIT 32KB FLASH 32QFPN 32-UFQFN Exposed Pad For the pricing/inventory/lead time, please contact	
For Reference Only	us Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request a Quote

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## STM32L041K6U7 Specifications

Manufacturer Part Number STM32L041K6U7   Manufacturer STMicroelectronics   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 32-UFQFN Exposed Pad   Series STM32 L0   Core Processor ARM? Cortex?-M0+   Core Size 32-Bit   Speed 32-WIZ   Connectivity Erown-out Detect/Reset, DMA, POR, PWM, WDT   Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT   Number of I/O 27   Program Memory Size 3KB (32K x 8)   Porgram Memory Type FLASH   KAM Size K x 8   Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V   Data Converters A/D 10x12b   Operating Temperature 4.0°C ~ 105°C (TA)   Mounting Type -   Package / Case 32-UFQFPN (Sx5)			
CategoryIntegrated Circuits (ICS)Embedded - MicrocontrollersPackage32-UFQFN Exposed PadSeriesSTM32 L0Core ProcessorARM? Cortex?-M0+Core Size32-BitSpeed32/HIzConnectivityICC, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory SizeIKA SAFARM SizeIKX SVoltage - Supply (Vcc/Vdd)ISV ~ 3.6 VData ConvertersADJ 10x12bOperating Temperature4.0°C ~ 105°C (TA)Mounting Type5.2Package / Case32-UFQFN (Szs)Supplier Device Package32-UFQFN (Szs)	Manufacturer Part Number	STM32L041K6U7	
Embedded - MicrocontrollersPackage32-UFQFN Exposed PadSeriesSTM32 L0Core ProcessorARM? Cortex?-M0+Core Size32-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type52UFQFN Exposed PadSupplier Device Package32UFQFN (55)	Manufacturer	STMicroelectronics	
Package32-UFQFN Exposed PadSeriesSTM32 L0Core ProcessorARM? Cortex?-M0+Core Size32-BitSpeed32MHzConectivityCC, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Porgram Memory SizeSIXB (32K x 8)FRASMKX 8RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOperating Temperature-40°C ~ 105°C (TA)Mounting Type5.2 UFQFPN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Category	Integrated Circuits (ICs)	
SeriesSTM32 L0Core ProcessorARM? Cortex?-M0+Core Size32-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting Type32-UFQFN (Sz5)		Embedded - Microcontrollers	
Core ProcessorARM? Cortex?-M0+Core Size32-BitSpeed32MHzConnectivity12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator Type-Porgating Temperature-Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Package	32-UFQFN Exposed Pad	
Core Size32-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM SizeNK x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersAD 10x12bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFPN (Sz5)	Series	STM32 L0	
Speed32MHzConnectivityIC, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM SizeK x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Core Processor	ARM? Cortex?-M0+	
FreeInternationalConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, POR, PWM, WDTNumber of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator Type-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN (5x5)Supplier Device Package32-UFQFN (5x5)	Speed	32MHz	
Number of I/O27Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Connectivity	I2C, IrDA, LIN, SPI, UART/USART	
Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size1K x 8RAM Size8K x 8Voltage - Supply (Vcc/Vd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Number of I/O	27	
EEPROM SizeIK x 8RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Program Memory Size	32KB (32K x 8)	
RAM Size8K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	EEPROM Size	1K x 8	
Data ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	RAM Size	8K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFN (5x5)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V	
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Data Converters	A/D 10x12b	
Mounting Type-Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Oscillator Type	Internal	
Package / Case32-UFQFN Exposed PadSupplier Device Package32-UFQFPN (5x5)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package32-UFQFPN (5x5)	Mounting Type	-	
	Package / Case	32-UFQFN Exposed Pad	
Report error	Supplier Device Package	32-UFQFPN (5x5)	
1			Report errors?

#### STM32L041K6U7 Guarantees



Quality Guarantees

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