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See specifications for product details.



STM32WLE5CCU6

Manufacturer Part Number	STM32WLE5CCU6
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STM32WLE5CCU6
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MULTIPROTOCOL LPWAN 32-BIT ARM C
Package	48-UFQFN Exposed Pad
Data sheet	STM32WLE5/E4xx.pdf
RoHs Status	ROHS3 Compliant

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Specifications

STM32WLE5CCU6 Tech Specifications
STM32WLE5CCU6 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tray
Voltage - Supply	1.8V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Type	TxRx + MCU	Mounting Type	Surface Mount
Supplier Device Package	48-UFQFPN (7x7)	Modulation	BPSK, GFSK, GMSK, FSK, MSK
Series	-	Memory Size	256kB Flash
Serial Interfaces	ADC, GPIO, I ² C, SPI, IrDA, UART, USART	GPIO	29
Sensitivity	-148dBm	Frequency	150MHz ~ 960MHz
RF Family/Standard	802.15.4	Data Rate (Max)	300kbps
Protocol	LoRaWAN 1.0, Sigfox	Current - Transmitting	21mA ~ 120mA
Power - Output	22dBm	Current - Receiving	4.82mA
Package / Case	48-UFQFN Exposed Pad	Base Product Number	STM32

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32WLE5CCU6

Product Attribute				
Part Number	STM32WLE5CCU6	STM32WLE5JC16TR	STM32WL55CCU6	STM32WLE5C8U6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Frequency	150MHz ~ 960MHz	150MHz ~ 960MHz	150MHz ~ 960MHz	150MHz ~ 960MHz
Data Rate (Max)	300kbps	300kbps	300kbps	300kbps
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Current - Receiving	4.82mA	4.47mA ~ 10.22mA	4.82mA	4.82mA
RF Family/Standard	802.15.4	General ISM < 1GHz	802.15.4	802.15.4
Sensitivity	-148dBm	-148dBm	-148dBm	-148dBm
Memory Size	256kB Flash	256kB Flash, 64kB SRAM	256kB Flash	64kB Flash
GPIO	29	43	29	29
Protocol	LoRaWAN 1.0, Sigfox	LoRaWAN 1.0, Sigfox, Wireless M-Bus	LoRaWAN 1.0, Sigfox	LoRaWAN 1.0, Sigfox
Type	TxRx + MCU	TxRx + MCU	TxRx + MCU	TxRx + MCU
Serial Interfaces	ADC, GPIO, I ² C, SPI, IrDA, UART, USART	ADC, GPIO, I ² C, I ² S, IrDA, JTAG, PWM, SPI, UART, USART	ADC, GPIO, I ² C, SPI, IrDA, UART, USART	ADC, GPIO, I ² C, SPI, IrDA, UART, USART
Power - Output	22dBm	22dBm	22dBm	22dBm
Package	Tray	Tape & Reel (TR)	Tray	Tray
Package / Case	48-UFQFN Exposed Pad	73-UFBGA	48-UFQFN Exposed Pad	48-UFQFN Exposed Pad
Base Product Number	STM32	STM32	STM32	STM32
Series	-	-	STM32WL	-
Modulation	BPSK, GFSK, GMSK, FSK, MSK	BPSK, FSK, GFSK, GMSK, MSK	BPSK, GFSK, GMSK, FSK, MSK	BPSK, GFSK, GMSK, FSK, MSK
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V	1.8V ~ 3.6V
Current - Transmitting	21mA ~ 120mA	21mA ~ 120mA	21mA ~ 120mA	21mA ~ 120mA
Supplier Device Package	48-UFQFPN (7x7)	73-UFBGA (5x5)	48-UFQFPN (7x7)	48-UFQFPN (7x7)

STM32WLE5CCU6 Datasheet PDF


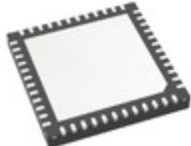
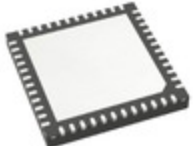
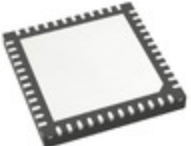


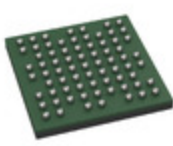



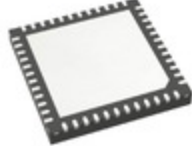


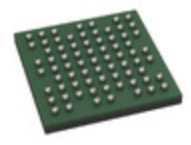

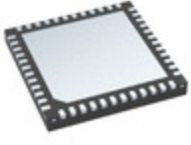


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Datasheets

STM32WLE5/E4xx.pdf

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Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

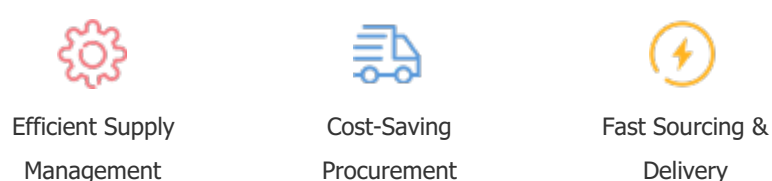
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

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