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See specifications for product details.



AT90USB647-AU

Manufacturer Part Number	AT90USB647-AU
Manufacturer	Microchip Technology
Allelco Part Number	32D-AT90USB647-AU
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 64KB FLASH 64TQFP
Package	64-TQFP
Data sheet	AT90USB64x,128x Complete.pdf Cylindrical Battery Holders.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

AT90USB647-AU - Microchip Technology. New Original in Stock. Download Linear Technology AT90USB647-AU datasheet/specifications on AllelcoElec.com. Request a quote for AT90USB647-AU, please send us email: info@allelco.com

Specifications

AT90USB647-AU Tech Specifications

AT90USB647-AU - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	64-TQFP (14x14)	Number of I/O	48
Speed	16MHz	Mounting Type	Surface Mount
Series	AVR@ 90USB	EEPROM Size	2K x 8
RAM Size	4K x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	64KB (64K x 8)	Core Processor	AVR
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	EBI/EMI, I ² C, SPI, UART/USART, USB OTG
Package / Case	64-TQFP	Base Product Number	AT90USB647
Package	Tray		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT90USB647-AU

Product Attribute				
Part Number	AT90USB647-AU	AT90USB162-16AUR	AT90USB82-16MU	AT90USB646-AU
Manufacturer	Microchip Technology	Atmel	Microchip Technology	Microchip Technology
Speed	16MHz	16MHz	16MHz	16MHz
Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V	2.7V ~ 5.5V
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Base Product Number	AT90USB647	AT90USB162	AT90USB82	AT90USB646
Data Converters	A/D 8x10b	-	-	A/D 8x10b
Program Memory Size	64KB (64K x 8)	16KB (16K x 8)	8KB (8K x 8)	64KB (64K x 8)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package / Case	64-TQFP	32-TQFP	32-VQFN Exposed Pad	64-TQFP
Series	AVR@ 90USB	AVR@ 90USB	AVR@ 90USB	AVR@ 90USB
Connectivity	EBI/EMI, I ² C, SPI, UART/USART, USB OTG	EBI/EMI, PS/2, SPI, UART/USART, USB	EBI/EMI, PS/2, SPI, UART/USART, USB	EBI/EMI, I ² C, SPI, UART/USART, USB
Number of I/O	48	22	22	48
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
RAM Size	4K x 8	512 x 8	512 x 8	4K x 8
Oscillator Type	Internal	Internal	Internal	Internal
Package	Tray	Bulk	Tray	Tray
Core Processor	AVR	AVR	AVR	AVR
Supplier Device Package	64-TQFP (14x14)	32-TQFP (7x7)	32-VQFN (5x5)	64-TQFP (14x14)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	2K x 8	512 x 8	512 x 8	2K x 8

AT90USB647-AU Datasheet PDF

Download AT90USB647-AU pdf datasheets and Microchip Technology documentation for AT90USB647-AU - Microchip Technology.

Datasheets

[AT90USB64x,128x Complete.pdf](#)

PCN Design/Specification


[Marking Chgs 11/Jul/2017.pdf](#)

[Copper Bonding Wire 06/Jun/2014.pdf](#)


HTML Datasheet

 Cylindrical Battery Holders.pdf

PCN Assembly/Origin



















 2.73KHz.pdf

PCN Packaging

 2.73KHz.pdf

Customers Also Interested in

Recommended Products

					
AT90USB162-16AUR Atmel IC MCU 8BIT 16KB FLASH 32TQFP	AT90VC8534-1AC Atmel (Microchip Technology)	AT90WM3-16MQ Atmel (Microchip Technology)	AT90USB162EAW-16MU Atmel (Microchip Technology)	AT90USB64-16MU Atmel (Microchip Technology)	AT90USB82-16MU Microchip Technology IC MCU 8BIT 8KB FLASH 32VQFN
					
AT90USB646-AU Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	AT90VC8544-4AAL Atmel (Microchip Technology)	AT90USB162-16MES Atmel (Microchip Technology)	AT90USB162-16MU Microchip Technology IC MCU 8BIT 16KB FLASH 32VQFN	AT90USB647-AUR Microchip Technology IC MCU 8BIT 64KB FLASH 64TQFP	AT90USB64-15MU Atmel (Microchip Technology)
					
AT90USB646-MUR Microchip Technology IC MCU 8BIT 64KB FLASH 64QFN	AT90VC8544-4AAX Atmel (Microchip Technology)	AT90USB647-MU Microchip Technology IC MCU 8BIT 64KB FLASH 64QFN	AT90VC8544-4AAD Atmel (Microchip Technology)	AT90USB646-MU Microchip Technology IC MCU 8BIT 64KB FLASH 64QFN	AT90USB162-16AUR Microchip Technology IC MCU 8BIT 16KB FLASH 32TQFP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

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.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -

-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

-  Phone
+00852 9146 4856
-  Email
info@allelco.com

Certifications & Memberships



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