

Image may be representation.  
See specifications for product details.



## AT91FR4042-CI

Manufacturer Part Number	<b>AT91FR4042-CI</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-AT91FR4042-CI
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 16/32B 512KB FLASH 121BGA
Package	121-TFBGA
Data sheet	<b>AT91FR4042.pdf</b>

**Get a Quote**

AT91FR4042-CI - Microchip Technology.New Original in Stock. Download Linear Technology AT91FR4042-CI datasheet/specifications on AllelcoElec.com.  
Request a quote for AT91FR4042-CI, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

AT91FR4042-CI Tech Specifications

AT91FR4042-CI - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	External
Voltage - Supply (Vcc/Vdd)	1.65V ~ 1.95V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	121-BGA (10x10)	Number of I/O	32
Speed	75MHz	Mounting Type	Surface Mount
Series	AT91	EEPROM Size	-
RAM Size	256K x 8	Data Converters	-
Program Memory Type	FLASH	Core Size	16/32-Bit
Program Memory Size	512KB (256K x 16)	Core Processor	ARM7®
Peripherals	WDT	Connectivity	EBI/EMI, UART/USART
Package / Case	121-TFBGA	Base Product Number	AT91FR4042
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology AT91FR4042-CI

Product Attribute				
Part Number	AT91FR4042-CI	<b>AT91FR40162SB-CU</b>	<b>AT91FR4081-33CI</b>	<b>AT91M42800A-33AU</b>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Oscillator Type	External	External	External	External
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Core Size	16/32-Bit	16/32-Bit	16/32-Bit	16/32-Bit
Series	AT91	AT91	AT91	AT91
Program Memory Size	512KB (256K x 16)	2MB (1M x 16)	1MB (512K x 16)	-
Package / Case	121-TFBGA	121-TFBGA	120-LBGA	144-LQFP
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	ARM7®	ARM7®	ARM7®	ARM7®
Base Product Number	AT91FR4042	AT91FR40162	AT91FR4081	AT91M42800A
Peripherals	WDT	WDT	WDT	WDT
Data Converters	-	-	-	-
RAM Size	256K x 8	256K x 8	136K x 8	8K x 8
Package	Tray	Tray	Tray	Tray
Number of I/O	32	32	32	54
Connectivity	EBI/EMI, UART/USART	EBI/EMI, UART/USART	EBI/EMI, UART/USART	EBI/EMI, SPI, UART/USART
Supplier Device Package	121-BGA (10x10)	121-BGA (10x10)	120-BGA (17x11)	144-LQFP (20x20)
EEPROM Size	-	-	-	-
Program Memory Type	FLASH	FLASH	FLASH	ROMless
Voltage - Supply (Vcc/Vdd)	1.65V ~ 1.95V	1.65V ~ 1.95V	2.7V ~ 3.6V	2.7V ~ 3.6V
Speed	75MHz	75MHz	33MHz	33MHz

### AT91FR4042-CI Datasheet PDF

Download AT91FR4042-CI pdf datasheets and Microchip Technology documentation for AT91FR4042-CI - Microchip Technology.

#### Datasheets

[AT91FR4042.pdf](#)


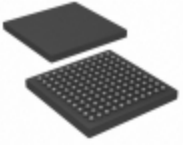





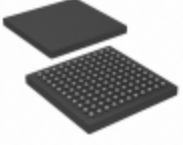







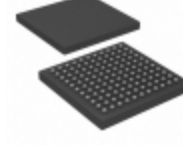


#### PCN Packaging

[MBB/Label Chgs 16/Nov/2018.pdf](#)

[Transfer to Microchip/Label/Pkg 5/Sep/2016.pdf](#)

## Customers Also Interested in

### Recommended Products

					
<b>AT91FR40162SB-CI</b> Atmel (Microchip Technology)	<b>AT91FR40162SB-CU</b> Microchip Technology IC MCU 16/32BIT 2MB FLASH 121BGA	<b>AT91FR4081-33CI</b> Microchip Technology IC MCU 16/32BIT 1MB FLASH 120BGA	<b>AT91C140-QU-001</b> Atmel (Microchip Technology)	<b>AT91M42800A-33AU</b> Microchip Technology IC MCU 16/32BIT ROMLESS 144LQFP	<b>AT91M40800-33AU</b> Microchip Technology IC MCU 16/32BIT ROMLESS 100LQFP
					
<b>AT91F40816-33CI</b> Microchip Technology IC MCU 16/32BIT 2MB FLASH 120BGA	<b>AT91FR40162-CI</b> Microchip Technology IC MCU 16/32BIT 2MB FLASH 121BGA	<b>AT91AD25-CF</b> Atmel (Microchip Technology)	<b>AT91798A</b> Atmel (Microchip Technology)	<b>AT91M40400-33AC</b> Microchip Technology IC MCU 16/32BIT ROMLESS 100TQFP	<b>AT91M40400-25AC</b> Microchip Technology IC MCU 16/32BIT ROMLESS 100TQFP
					
<b>AT91M4080033AI</b> Atmel (Microchip Technology)	<b>AT91M42800A-33AU</b> Atmel IC MCU 16/32BIT ROMLESS 144LQFP	<b>AT91M40800-33AI</b> Microchip Technology IC MCU 16/32BIT ROMLESS 100LQFP	<b>AT91FR40162S-CJ</b> Microchip Technology IC MCU 16/32BIT 2MB FLASH 121BGA	<b>AT91FR40162S</b> Atmel (Microchip Technology)	<b>AT91M40400-25AI</b> Microchip Technology IC MCU 16/32BIT ROMLESS 100TQFP

## 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.



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Contact us if you have any questions.

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### Certifications & Memberships



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