

Image may be representation.  
See specifications for product details.



## PIC16F1824-E/ML

Manufacturer Part Number **PIC16F1824-E/ML**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-PIC16F1824-E/ML**

ECAD Model PCB Symbol, Footprint & 3D Model

Parts Description **IC MCU 8BIT 7KB FLASH 16QFN**

Package **16-VQFN Exposed Pad**

Data sheet **[PIC112F,PIC16F182X Overview.pdf](#)**

**[Next Generation Peripherals Brochure.pdf](#)**

**[PIC16F\(L\)1824,28.pdf](#)**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

PIC16F1824-E/ML - Microchip Technology.New Original in Stock. Download Linear Technology PIC16F1824-E/ML datasheet/specifications on AllelcoElec.com.  
Request a quote for PIC16F1824-E/ML, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

PIC16F1824-E/ML Tech Specifications

PIC16F1824-E/ML - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package	16-QFN (4x4)	Number of I/O	11
Speed	32MHz	Mounting Type	Surface Mount
Series	PIC® XLP™ mTouch™ 16F	EEPROM Size	256 x 8
RAM Size	256 x 8	Data Converters	A/D 8x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	7KB (4K x 14)	Core Processor	PIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I <sup>2</sup> C, SPI, UART/USART
Package / Case	16-VQFN Exposed Pad	Base Product Number	PIC16F1824
Package	Tube		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology PIC16F1824-E/ML

Product Attribute				
Part Number	PIC16F1824-E/ML	<a href="#">PIC16F1824-E/SL</a>	<a href="#">PIC16F1823-I/ML</a>	<a href="#">PIC16F1824-I/SL</a>
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
RAM Size	256 x 8	256 x 8	128 x 8	256 x 8
Oscillator Type	Internal	Internal	Internal	Internal
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Program Memory Size	7KB (4K x 14)	7KB (4K x 14)	3.5KB (2K x 14)	7KB (4K x 14)
Voltage - Supply (Vcc/Vdd)	1.8V ~ 5.5V	1.8V ~ 5.5V	1.8V ~ 5.5V	1.8V ~ 5.5V
Base Product Number	PIC16F1824	PIC16F1824	PIC16F1823	PIC16F1824
Speed	32MHz	32MHz	32MHz	32MHz
Core Processor	PIC	PIC	PIC	PIC
Data Converters	A/D 8x10b	A/D 8x10b	A/D 8x10b	A/D 8x10b
EEPROM Size	256 x 8	256 x 8	256 x 8	256 x 8
Number of I/O	11	11	12	11
Connectivity	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART	I <sup>2</sup> C, LINbus, SPI, UART/USART	I <sup>2</sup> C, SPI, UART/USART
Supplier Device Package	16-QFN (4x4)	14-SOIC	16-QFN (4x4)	14-SOIC
Series	PIC® XLP™ mTouch™ 16F	PIC® XLP™ mTouch™ 16F	PIC® XLP™ 16F	PIC® XLP™ mTouch™ 16F
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Package	Tube	Tube	Tube	Tube
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
Package / Case	16-VQFN Exposed Pad	14-SOIC (0.154", 3.90mm Width)	16-VQFN Exposed Pad	14-SOIC (0.154", 3.90mm Width)
Operating Temperature	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)

## PIC16F1824-E/ML Datasheet PDF

Download PIC16F1824-E/ML pdf datasheets and Microchip Technology documentation for PIC16F1824-E/ML - Microchip Technology.

### Datasheets

[PIC112F,PIC16F182X Overview.pdf](#)

[Next Generation Peripherals Brochure.pdf](#)

[PIC16F\(L\)1824,28.pdf](#)


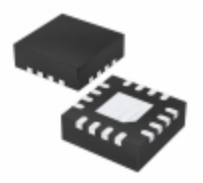










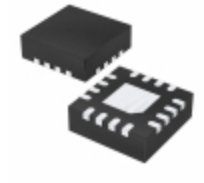





### PCN Packaging

PCN Assembly/Origin

Mult Devices 14/Aug/2017.pdf

Customers Also Interested in

Recommended Products

					
<b>PIC16F1824-E/SL</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14SOIC	<b>PIC16F1823-I/ML</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 16QFN	<b>PIC16F1824-I/SL</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14SOIC	<b>PIC16F1824-I/P</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14DIP	<b>PIC16F1823-E/SL</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14SOIC	<b>PIC16F1823-I/SL</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14SOIC
					
<b>PIC16F1824T-E/SL</b> Micrel / Microchip Technology	<b>PIC16F1823T-I/SL</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14SOIC	<b>PIC16F1823-I/P</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14DIP	<b>PIC16F1823-I/ST</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14TSSOP	<b>PIC16F1824T-E/ML</b> Micrel / Microchip Technology	<b>PIC16F1823T-E/SL</b> Micrel / Microchip Technology
					
<b>PIC16F1824-I/ML</b> Microchip Technology IC MCU 8BIT 7KB FLASH 16QFN	<b>PIC16F1824-E/STVAO</b> Micrel / Microchip Technology	<b>PIC16F1824-E/ST</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14TSSOP	<b>PIC16F1823-E/ST</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14TSSOP	<b>PIC16F1824-I/ST</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14TSSOP	<b>PIC16F1823T-I/ST</b> Microchip Technology IC MCU 8BIT 3.5KB FLASH 14TSSOP

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



View More

Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com