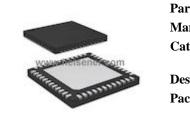


# PIC24F32KA304T-I/MV

### PIC24F32KA304T-I/MV Information



For Reference Only

| rt Number   | PIC24F32KA304T-I/MV  |  |
|-------------|--|--|
| anufacturer | Microchip Technology   |  |
| tegory      | Integrated Circuits (ICs)<br>Embedded - Microcontrollers                                       |  |
| scription   | IC MCU 16BIT 32KB FLASH 48UQFN   |  |
| ckage       | 48-UFQFN Exposed Pad   |  |
|             | For the pricing/inventory/lead time, please contact<br>us<br>Website: https://www.heisener.com |  |
|             | E-mail: salesdept@heisener.com   |  |



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## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



# PIC24F32KA304T-I/MV Specifications

| ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage48-UFQFN Exposed PadSeriesPIC? XLP? 24FCore ProcessorPICCore Size16-BitSpeed32MHzConnectivityIC2, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size512 x 8RAM SizeS12 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOperating Temperature40°C ~ 85°C (TA)Mounting Type48-UFQFN Exposed PadSupplier Device Package48-UQFN Exposed PadSupplier Device Package48-UQFN Exposed Pad            |                            |   |
|--|----------------------------|---|
| CategoryIntegrated Circuits (Cs)Embedded - MicrocontrollersPackage48-UFQFN Exposed PadPackage48-UFQFN Exposed PadSeriesPIC? XLP? 24FCore ProcessorPICCore Size16-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6) | Manufacturer Part Number   | PIC24F32KA304T-I/MV                         |
| Embedded - MicrocontrollersPackage48-UFQFN Exposed PadPackagePIC? XLP? 24FCore ProcessorPICCore Size16-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size512 x 8Program Memory TypeFLASHEEPROM Size21X x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Manufacturer               | Microchip Technology                        |
| Package48-UFQFN Exposed PadSeriesPICCore ProcessorPICCore Size16-BitSpeed32MHzConceivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)PERPROM Size512 x 8RAM SizeSt x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOperating Temperature-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Category                   | Integrated Circuits (ICs)                   |
| SeriesPIC? XLP? 24FCore ProcessorPICCore Size16-BitSpeed32MHzConnectivity12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size312 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersAD 16x12bOperating Temperature40°C ~ 85°C (TA)Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  |                            | Embedded - Microcontrollers                 |
| Core ProcessorPICCore Size16-BitSpeed32MHzConnectivity12C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator Type-Porating Temperature-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Package                    | 48-UFQFN Exposed Pad                        |
| Core Size16-BitSpeed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOperating Temperature-40°C ~ 85°C (TA)Program Grape-40°C ~ 85°C (TA)Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Series                     | PIC? XLP? 24F                               |
| Speed32MHzConnectivityI2C, IrDA, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Core Processor             | PIC   |
| Connectivity I2C, IrDA, LIN, SPI, UART/USART   Peripherals Brown-out Detect/Reset, HLVD, POR, PWM, WDT   Number of I/O 39   Program Memory Size 32KB (11K x 24)   Program Memory Type FLASH   EEPROM Size 512 x 8   Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V   Data Converters A/D 16x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Package / Case 48-UFQFN Exposed Pad   Supplier Device Package 48-UQFN (6x6)   | Core Size                  | 16-Bit                                      |
| PeripheralsBrown-out Detect/Reset, HLVD, POR, PWM, WDTNumber of I/O39Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Speed                      | 32MHz                                       |
| Number of I/O 39   Program Memory Size 32KB (11K x 24)   Program Memory Type FLASH   EEPROM Size 512 x 8   RAM Size 2K x 8   Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V   Data Converters A/D 16x12b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Package / Case 48-UFQFN Exposed Pad   Supplier Device Package 48-UQFN (6x6)  | Connectivity               | I2C, IrDA, LIN, SPI, UART/USART             |
| Program Memory Size32KB (11K x 24)Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Peripherals                | Brown-out Detect/Reset, HLVD, POR, PWM, WDT |
| Program Memory TypeFLASHEEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bDoscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)   | Number of I/O              | 39  |
| EEPROM Size512 x 8RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Program Memory Size        | 32KB (11K x 24)                             |
| RAM Size2K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Program Memory Type        | FLASH                                       |
| Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | EEPROM Size                | 512 x 8                                     |
| Data ConvertersA/D 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)   | RAM Size                   | 2K x 8                                      |
| Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)  | Voltage - Supply (Vcc/Vdd) | 1.8 V ~ 3.6 V                               |
| Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)   | Data Converters            | A/D 16x12b                                  |
| Mounting Type-Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)   | Oscillator Type            | Internal                                    |
| Package / Case48-UFQFN Exposed PadSupplier Device Package48-UQFN (6x6)   | Operating Temperature      | -40°C ~ 85°C (TA)                           |
| Supplier Device Package48-UQFN (6x6)   | Mounting Type              | -   |
|  | Package / Case             | 48-UFQFN Exposed Pad                        |
| Report errors?   | Supplier Device Package    | 48-UQFN (6x6)                               |
|  |                            | Report errors?                              |

#### PIC24F32KA304T-I/MV Guarantees



**Quality Guarantees** 

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

DISCOVER

### PIC24F32KA304T-I/MV Payment Methods



### PIC24F32KA304T-I/MV Shipping Methods



If you have any question about PIC24F32KA304T-I/MV, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com