



PIC16LF18446-E/GZ Information



For Reference Only

Part Number PIC16LF18446-E/GZ

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

DescriptionRAM COMPARATOR**Package**20-UFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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PIC16LF18446-E/GZ Specifications

Manufacturer PIC16LF18446-E/GZ Manufacturer Microchip Technology Category Integrated Circuits (ICs) Package 20-UFQFN Exposed Pad Series PIC® XLP™ 16F Core Processor PIC Core Size 8-Bit Speed 32MHz Connectivity PC, LINbus, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad Supplier Device Package 20-UQFN (4x4)		
Category Integrated Circuits (ICs) Embedded - Microcontrollers Package 20-UFQFN Exposed Pad Series PIC® XLP™ 16F Core Processor PIC Core Size 8-Bit Speed 32MHz Connectivity PC, LINbus, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Manufacturer Part Number	PIC16LF18446-E/GZ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Manufacturer	Microchip Technology
Package 20-UFQFN Exposed Pad Series PIC® XLPTM 16F Core Processor PIC Core Size 8-Bit Speed 32MHz Connectivity PC, LINbus, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Category	Integrated Circuits (ICs)
SeriesPIC® XLPTM 16FCore ProcessorPICCore Size8-BitSpeed 32 MHzConnectivityPC, LINbus, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O 18 Program Memory Size 28 KB $(16$ K x 14)Program Memory TypeFLASHEEPROM Size 256 x 8 RAM Size $2K$ x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 VData Converters A/D $17x12b$, D/A $1x5b$ Oscillator TypeInternalOperating Temperature -40 °C ~ 125 °C (TA) Mounting Type-Package / Case 20 -UFQFN Exposed Pad		Embedded - Microcontrollers
Core Processor Core Size 8-Bit Speed 32MHz Connectivity PC, LINbus, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 256 x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature A-0°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Package	20-UFQFN Exposed Pad
Core Size Speed 32MHz Connectivity PC, LINbus, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 8-Bit 8-Bit 32MHz 32MHz 32MHz 32MHz 48-Bit 48-Bit	Series	PIC® XLP™ 16F
Speed Connectivity Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Core Processor	PIC
Connectivity Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Core Size	8-Bit
Peripherals Brown-out Detect/Reset, POR, PWM, WDT Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type Package / Case Brown-out Detect/Reset, POR, PWM, WDT 18 A/D 17x12b, D/A 1x5b CSC (TA) -UPQFN Exposed Pad	Speed	32MHz
Number of I/O 18 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Connectivity	I ² C, LINbus, SPI, UART/USART
Program Memory Size Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type Package / Case 28KB (16K x 14) FLASH FLASH FLASH I Standard I Standa	Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Number of I/O	18
EEPROM Size 256×8 RAM Size $2K \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 17x12b$, $D/A 1x5b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TA)Mounting Type-Package / Case $20\text{-UFQFN Exposed Pad}$	Program Memory Size	28KB (16K x 14)
RAM Size $2K \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 17x12b, D/A 1x5b$ Oscillator Type $Internal$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TA)}$ Mounting Type $-$ Package / Case $20\text{-UFQFN Exposed Pad}$	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 17x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-UFQFN Exposed Pad	EEPROM Size	256 x 8
Data Converters A/D 17x12b, D/A 1x5b Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	RAM Size	2K x 8
Oscillator Type Internal Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V
Operating Temperature -40°C ~ 125°C (TA) Mounting Type - Package / Case 20-UFQFN Exposed Pad	Data Converters	A/D 17x12b, D/A 1x5b
Mounting Type - Package / Case 20-UFQFN Exposed Pad	Oscillator Type	Internal
Package / Case 20-UFQFN Exposed Pad	Operating Temperature	-40°C ~ 125°C (TA)
	Mounting Type	-
Supplier Device Package 20-UQFN (4x4)	Package / Case	20-UFQFN Exposed Pad
	Supplier Device Package	20-UQFN (4x4)
Report errors?		Report errors?

PIC16LF18446-E/GZ 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.

PIC16LF18446-E/GZ Payment Methods



















PIC16LF18446-E/GZ Shipping Methods













If you have any question about PIC16LF18446-E/GZ, please do not hesitate to contact us!

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