



### MSP430F6636IPZ Information



For Reference Only

Part Number MSP430F6636IPZ

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 128KB FLASH 100LQFP

Package 100-LQFF

For the pricing/inventory/lead time, please contact

us

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## **MSP430F6636IPZ Specifications**

Manufacturer Part Number         MSP430F6636IPZ           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         100-LQFP           Series         MSP430F6xx           Core Processor         CPUXV2           Core Size         16-Bit           Speed         20MHz           Connectivity         12C, IrDA, LIN, SCI, SPI, UART/USART, USB           Peripherals         Brown-out Detect/Reset, DMA, POR, PWM, WDT           Number of I/O         74           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         18K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 16x12b, D/A 2x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -		
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         100-LQFP           Series         MSP430F6xx           Core Processor         CPUXV2           Core Size         16-Bit           Speed         20MHz           Connectivity         12C, IrDA, LIN, SCI, SPI, UART/USART, USB           Peripherals         Brown-out Detect/Reset, DMA, POR, PWM, WDT           Number of I/O         74           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         18K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 16x12b, D/A 2x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	Manufacturer Part Number	MSP430F6636IPZ
Embedded - Microcontrollers  Package 100-LQFP  Series MSP430F6xx  Core Processor CPUXV2  Core Size 16-Bit  Speed 20MHz  Connectivity 12C, IrDA, LIN, SCI, SPI, UART/USART, USB  Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT  Number of I/O 74  Program Memory Size 128KB (128K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 18K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 16x12b, D/A 2x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Manufacturer	Texas Instruments
Package         100-LQFP           Series         MSP430F6xx           Core Processor         CPUXV2           Core Size         16-Bit           Speed         20MHz           Connectivity         I2C, IrDA, LIN, SCI, SPI, UART/USART, USB           Peripherals         Brown-out Detect/Reset, DMA, POR, PWM, WDT           Number of I/O         74           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         18K x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 16x12b, D/A 2x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	Category	Integrated Circuits (ICs)
SeriesMSP430F6xxCore ProcessorCPUXV2Core Size $16\text{-Bit}$ Speed $20\text{MHz}$ Connectivity $12\text{C}$ ,		Embedded - Microcontrollers
Core Processor Core Size 16-Bit Speed 20MHz Connectivity 12C, IrDA, LIN, SCI, SPI, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT Number of I/O 74 Program Memory Size 128KB (128K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 18K x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 16x12b, D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type -	Package	100-LQFP
Core Size  Speed  20MHz  Connectivity  I2C, IrDA, LIN, SCI, SPI, UART/USART, USB  Peripherals  Brown-out Detect/Reset, DMA, POR, PWM, WDT  Number of I/O  74  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  18K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 3.6 V  Data Converters  A/D 16x12b, D/A 2x12b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  -	Series	MSP430F6xx
Speed 20MHz Connectivity I2C, IrDA, LIN, SCI, SPI, UART/USART, USB Peripherals Brown-out Detect/Reset, DMA, POR, PWM, WDT  Number of I/O 74 Program Memory Size 128KB (128K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 18K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 16x12b, D/A 2x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Core Processor	CPUXV2
Connectivity  I2C, IrDA, LIN, SCI, SPI, UART/USART, USB  Peripherals  Brown-out Detect/Reset, DMA, POR, PWM, WDT  Number of I/O  74  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  RAM Size  18K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 3.6 V  Data Converters  A/D 16x12b, D/A 2x12b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  -	Core Size	16-Bit
Peripherals  Brown-out Detect/Reset, DMA, POR, PWM, WDT  74  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  18K x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 3.6 V  Data Converters  A/D 16x12b, D/A 2x12b  Oscillator Type  Internal  Operating Temperature  40°C ~ 85°C (TA)  Mounting Type  -	Speed	20MHz
Number of I/O  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  18K x 8  Voltage - Supply (Vcc/Vdd)  Data Converters  A/D 16x12b, D/A 2x12b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  -	Connectivity	I2C, IrDA, LIN, SCI, SPI, UART/USART, USB
Program Memory Size $128KB (128K \times 8)$ Program Memory TypeFLASHEEPROM Size-RAM Size $18K \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data ConvertersA/D $16x12b$ , D/A $2x12b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-	Peripherals	Brown-out Detect/Reset, DMA, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 18K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 16x12b, D/A 2x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Number of I/O	74
EEPROM Size - RAM Size 18K x 8  Voltage - Supply (Vcc/Vdd) 1.8 V $\sim$ 3.6 V  Data Converters A/D 16x12b, D/A 2x12b  Oscillator Type Internal  Operating Temperature -40°C $\sim$ 85°C (TA)  Mounting Type -	Program Memory Size	128KB (128K x 8)
RAM Size $18K \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 16x12b, D/A 2x12b$ Oscillator Type Internal $Operating Temperature \qquad -40^{\circ}\text{C} \sim 85^{\circ}\text{C} (TA)$ Mounting Type $-$	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $A/D 16x12b, D/A 2x12b$ Oscillator Type $Internal$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)}$ Mounting Type $-$	EEPROM Size	-
Data ConvertersA/D $16x12b$ , D/A $2x12b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-	RAM Size	18K x 8
Oscillator Type Internal	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V
Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Data Converters	A/D 16x12b, D/A 2x12b
Mounting Type -	Oscillator Type	Internal
- 11	Operating Temperature	-40°C ~ 85°C (TA)
	Mounting Type	-
Package / Case 100-LQFP	Package / Case	100-LQFP
Supplier Device Package 100-LQFP (14x14)	Supplier Device Package	100-LQFP (14x14)
Report errors?		Report errors?

#### MSP430F6636IPZ Guarantees



#### **Quality Guarantees**

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#### **Service Guarantees**

We guarantee 100% customer satisfaction.

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### MSP430F6636IPZ Payment Methods



















### MSP430F6636IPZ Shipping Methods













If you have any question about MSP430F6636IPZ, please do not hesitate to contact us!

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