

## **MSP430F2131TDWR**

#### **MSP430F2131TDWR Information**



For Reference Only

Part Number MSP430F2131TDWR

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description**IC MCU 16BIT 8KB FLASH 20SOIC**Package**20-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

# **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.









# **MSP430F2131TDWR Specifications**

Manufacturer Part Number         MSP430F2131TDWR           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Behedded - Microcontrollers           Package         20-SOIC (0.295", 7.50mm Width)           Series         MSP430F2xx           Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 + 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	•	
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         20-SOIC (0.295", 7.50mm Width)           Series         MSP430F2xx           Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 + 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	Manufacturer Part Number	MSP430F2131TDWR
Package         20-SOIC (0.295", 7.50mm Width)           Series         MSP430F2xx           Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 ± 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	Manufacturer	Texas Instruments
Package         20-SOIC (0.295", 7.50mm Width)           Series         MSP430F2xx           Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 + 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	Category	Integrated Circuits (ICs)
Series         MSP430F2xx           Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 + 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC		Embedded - Microcontrollers
Core Processor         MSP430           Core Size         16-Bit           Speed         16MHz           Connectivity         -           Peripherals         Brown-out Detect/Reset, POR, PWM, WDT           Number of I/O         16           Program Memory Size         8KB (8K x 8 + 256B)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         256 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         Slope A/D           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC	Package	20-SOIC (0.295", 7.50mm Width)
Core Size16-BitSpeed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size8KB (8K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Series	MSP430F2xx
Speed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size8KB (8K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Core Processor	MSP430
Connectivity - Peripherals Brown-out Detect/Reset, POR, PWM, WDT  Number of I/O 16 Program Memory Size 8KB (8K x 8 + 256B) Program Memory Type FLASH  EEPROM Size - RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters Slope A/D  Oscillator Type Internal  Operating Temperature -40°C ~ 105°C (TA)  Mounting Type - Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Core Size	16-Bit
Peripherals  Brown-out Detect/Reset, POR, PWM, WDT  Number of I/O  16  Program Memory Size  8KB (8K x 8 + 256B)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  256 x 8  Voltage - Supply (Vcc/Vdd)  1.8 V ~ 3.6 V  Data Converters  Slope A/D  Oscillator Type  Internal  Operating Temperature  -40°C ~ 105°C (TA)  Mounting Type  -  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Speed	16MHz
Number of I/O Program Memory Size 8KB (8K x 8 + 256B) Program Memory Type FLASH  EEPROM Size - RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters Slope A/D Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA)  Mounting Type - Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package	Connectivity	-
Program Memory Size 8KB (8K x 8 + 256B)  Program Memory Type FLASH  EEPROM Size  RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters Slope A/D  Oscillator Type Internal  Operating Temperature -40°C ~ $105$ °C (TA)  Mounting Type -  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters Slope A/D  Oscillator Type Internal  Operating Temperature -40°C ~ 105°C (TA)  Mounting Type -  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Number of I/O	16
EEPROM Size - 256 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters Slope A/D  Oscillator Type Internal  Operating Temperature -40°C ~ 105°C (TA)  Mounting Type - Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Program Memory Size	8KB (8K x 8 + 256B)
RAM Size $256 \times 8$ Voltage - Supply (Vcc/Vdd) $1.8 \text{ V} \sim 3.6 \text{ V}$ Data Converters $Slope \text{ A/D}$ Oscillator Type $Internal$ Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C (TA)}$ Mounting Type $-$ Package / Case $20\text{-SOIC } (0.295^{\circ}\text{, 7.50mm Width)}$ Supplier Device Package $20\text{-SOIC}$	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	EEPROM Size	-
Data Converters  Slope A/D  Oscillator Type Internal  Operating Temperature  -40°C ~ 105°C (TA)  Mounting Type  - Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package  20-SOIC	RAM Size	256 x 8
Oscillator Type Internal  Operating Temperature -40°C ~ 105°C (TA)  Mounting Type -  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V
Operating Temperature  -40°C ~ 105°C (TA)  Mounting Type  - Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package  20-SOIC	Data Converters	Slope A/D
Mounting Type - Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC	Oscillator Type	Internal
Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC	Operating Temperature	$-40^{\circ}\text{C} \sim 105^{\circ}\text{C} \text{ (TA)}$
Supplier Device Package 20-SOIC	Mounting Type	-
	Package / Case	20-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	20-SOIC
		Report errors?

#### **MSP430F2131TDWR 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.

### **MSP430F2131TDWR Payment Methods**



















## MSP430F2131TDWR Shipping Methods













If you have any question about MSP430F2131TDWR, please do not hesitate to contact us!

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