

# MSP430F2121IDGVR

#### **MSP430F2121IDGVR Information**

|                    | <br>MSP430F2121IDGVR<br>Texas Instruments<br>Integrated Circuits (ICs)<br>Embedded - Microcontrollers<br>IC MCU 16BIT 4KB FLASH 20TVSOP<br>20-TFSOP (0.173", 4.40mm Width)<br>For the pricing/inventory/lead time, please contact |                 |
|--------------------|---|-----------------|
| For Reference Only | Website: https://www.heisener.com<br>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.



## MSP430F2121IDGVR Specifications

| Manufacturer Texas Instruments   Manufacturer Texas Instruments   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 20-TFSOP (0.173", 4.40mm Width)   Series MSP430F2xx   Core Processor MSP430F2xx   Core Size 16-Bit   Speed 16MHz   Connectivity -   Peripherals Brown-out Detect/Reset, POR, PWM, WDT   Number of I/O 16   Program Memory Size 4KB (4K x 8 + 256B)   Perper 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 ~ 85°C (TA)   Mounting Type -   Package / Case 20-TFSOP (0.173", 4.40mm Width) |                            |                                       |
|---|----------------------------|---------------------------------------|
| CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage20-TFSOP (0.173", 4.40mm Width)SeriesMSP430F2xxCore ProcessorMSP430Core Size16-BitSpeed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-Nutage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TFSOP (0.173", 4.40mm Width)  | Manufacturer Part Number   | MSP430F2121IDGVR                      |
| Embedded - MicrocontrollersPackage20-TFSOP (0.173", 4.40mm Width)SeriesMSP430F2xxCore ProcessorMSP430Core Size16-BitSpeed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K 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 ~ 85°C (TA)Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TYSOP   | Manufacturer               | Texas Instruments                     |
| Package20-TFSOP (0.173", 4.40mm Width)SeriesMSP430F2xxCore ProcessorMSP430Core Size16-BitSpeed16MHzConcetivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-Nutage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package02-TYSOP   | Category                   | Integrated Circuits (ICs)             |
| SeriesMSP430F2xxCore ProcessorMSP430Core Size16-BitSpeed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator Type-Program femeprature-Avo°c ~ 85°C (TA)-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TYSOP   |                            | 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 4KB (4K 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 -   Package / Case 20-TFSOP (0.173", 4.40mm Width)   Supplier Device Package 20-TVSOP   | Package                    | 20-TFSOP (0.173", 4.40mm Width)       |
| Core Size16-BitSpeed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Series                     | MSP430F2xx                            |
| Speed16MHzConnectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)   | Core Processor             | MSP430                                |
| Connectivity-PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP  | Core Size                  | 16-Bit                                |
| PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Speed                      | 16MHz                                 |
| Number of I/O16Program Memory Size4KB (4K x 8 + 256B)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Connectivity               | -                                     |
| Program Memory Size4KB (4K 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 ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Peripherals                | Brown-out Detect/Reset, POR, PWM, WDT |
| Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Number of I/O              | 16                                    |
| EEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Program Memory Size        | 4KB (4K x 8 + 256B)                   |
| RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Program Memory Type        | FLASH                                 |
| Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP  | EEPROM Size                | -                                     |
| Data ConvertersSlope A/DOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | RAM Size                   | 256 x 8                               |
| Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP   | Voltage - Supply (Vcc/Vdd) | 1.8 V ~ 3.6 V                         |
| Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP  | Data Converters            | Slope A/D                             |
| Mounting Type-Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP  | Oscillator Type            | Internal                              |
| Package / Case20-TFSOP (0.173", 4.40mm Width)Supplier Device Package20-TVSOP  | Operating Temperature      | -40°C ~ 85°C (TA)                     |
| Supplier Device Package 20-TVSOP  | Mounting Type              | -                                     |
|   | Package / Case             | 20-TFSOP (0.173", 4.40mm Width)       |
| Report errors?  | Supplier Device Package    | 20-TVSOP                              |
|   |                            | Report errors                         |

#### MSP430F2121IDGVR 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 BUARANTEE

#### **Service Guarantees**

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

#### MSP430F2121IDGVR Payment Methods



If you have any question about MSP430F2121IDGVR, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com