

MSP430FR2033IG56



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Part Number: [MSP430FR2033IG56](#)

Manufacturer: [N/A](#)

Description: [IC MCU 16BIT 15.5KB FRAM 56TSSOP](#)

Data sheet:

RoHS Status: [Lead free / RoHS Compliant](#)

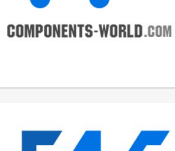
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |                                 |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                  | MSP430FR2033IG56                                                                     | Manufacturer                    | N/A                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                  | IC MCU 16BIT 15.5KB FRAM 56TSSOP                                                     | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                           | 53020 pcs                                                                            | Data sheet                      |                            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">Integrated Circuits (ICs)</a>                                            | Voltage - Supply (Vcc/Vdd)      | 1.8 V ~ 3.6 V              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                      | 56-TSSOP                                                                             | Speed                           | 16MHz                      |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                       | MSP430™ FRAM                                                                         | RAM Size                        | 2K x 8                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                          | FRAM                                                                                 | Program Memory Size             | 15.5KB (15.5K x 8)         |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown-out Detect/Reset, POR, PWM, WDT                                                | Packaging                       | Tube                       |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                               | 56-TFSOP (0.240", 6.10mm Width)                                                      | Oscillator Type                 | Internal                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                        | -40°C ~ 85°C (TA)                                                                    | Number of I/O                   | 52                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                             | 3 (168 Hours)                                                                        | Manufacturer Standard Lead Time | 6 Weeks                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                               | Lead free / RoHS Compliant                                                           | EEPROM Size                     | -                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                         | MSP430 MSP430™ FRAM Microcontroller IC 16-Bit 16MHz 15.5KB (15.5K x 8) FRAM 56-TSSOP | Data Converters                 | A/D 8x10b                  |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                    | 16-Bit                                                                               | Core Processor                  | MSP430                     |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                 | I²C, IrDA, SCI, SPI, UART/USART                                                      |                                 |                            |
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| RELATED PRODUCTS                                                                   |                                                                                            |                                    |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------|----------------|
|  | Part#: <a href="#">MSP430FR2110IRLLR</a><br>Description: IC MCU 16BIT 2KB FRAM 24VQFN      | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2032IG56</a><br>Description: IC MCU 16BIT 8.5KB FRAM 56TSSOP    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2100IPW16R</a><br>Description: ULTRA LOW POWER MICRO CONTROLLER | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2100IRLLT</a><br>Description: 16 MHZ ULTRA-LOW-POWER MICROCONT  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2032IG56R</a><br>Description: IC MCU 16BIT 8.5KB FRAM 56TSSOP   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2032IPMR</a><br>Description: IC MCU 16BIT 8.5KB FRAM 64LQFP     | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2000IPW16R</a><br>Description: ULTRA LOW POWER MICRO CONTROLLER | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2100IRLLR</a><br>Description: ULTRA LOW POWER MICRO CONTROLLER  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2032IG48</a><br>Description: IC MCU 16BIT 8.5KB FRAM 48TSSOP    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2033IPM</a><br>Description: IC MCU 16BIT 15.5KB FRAM 64LQFP     | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2032IG48R</a><br>Description: IC MCU 16BIT 8.5KB FRAM 48TSSOP   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2033IG56R</a><br>Description: IC MCU 16BIT 15.5KB FRAM 56TSSOP  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2110IPW16R</a><br>Description: IC MCU 16BIT 2KB FRAM 16TSSOP    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2100IPW16</a><br>Description: 16 MHZ ULTRA-LOW-POWER MICROCONT  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2033IG48R</a><br>Description: IC MCU 16BIT 15.5KB FRAM 48TSSOP  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2000IRLLT</a><br>Description: 16 MHZ ULTRA-LOW-POWER MICROCONT  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2000IRLLR</a><br>Description: ULTRA LOW POWER MICRO CONTROLLER  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2110IPW16</a><br>Description: IC MCU 16BIT 2KB FRAM 16TSSOP     | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2033IG48</a><br>Description: IC MCU 16BIT 15.5KB FRAM 48TSSOP   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FR2033IPMR</a><br>Description: IC MCU 16BIT 15.5KB FRAM 64LQFP    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |

|                                              |                              |                           |                        |
|----------------------------------------------|------------------------------|---------------------------|------------------------|
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