

MSP430FG438IZCAR



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Part Number: [MSP430FG438IZCAR](#)

Manufacturer: [N/A](#)

Description: [IC MCU 16BIT 48KB FLASH 113NFBGA](#)

Data sheet:

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

Ship From: [Hong Kong](#)

Shipment Way: [DHL/Fedex/TNT/UPS/EMS](#)

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |                                 |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                  | MSP430FG438IZCAR                                                                             | Manufacturer                    | N/A                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                  | IC MCU 16BIT 48KB FLASH 113NFBGA                                                             | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                           | 18877 pcs                                                                                    | Data sheet                      |                            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="#">Integrated Circuits (ICs)</a>                                                    | Voltage - Supply (Vcc/Vdd)      | 1.8 V ~ 3.6 V              |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                      | 113-NFBGA (7x7)                                                                              | Speed                           | 8MHz                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                       | MSP430x4xx                                                                                   | RAM Size                        | 2K x 8                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                          | FLASH                                                                                        | Program Memory Size             | 48KB (48K x 8 + 256B)      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown-out Detect/Reset, DMA, LCD, POR, PWM, WDT                                              | Packaging                       | Tape & Reel (TR)           |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                               | 113-VFBGA                                                                                    | Oscillator Type                 | Internal                   |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                        | -40°C ~ 85°C (TA)                                                                            | Number of I/O                   | 48                         |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                             | 3 (168 Hours)                                                                                | Manufacturer Standard Lead Time | 26 Weeks                   |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                               | Lead free / RoHS Compliant                                                                   | EEPROM Size                     | -                          |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                         | MSP430 MSP430x4xx Microcontroller IC 16-Bit 8MHz 48KB (48K x 8 + 256B) FLASH 113-NFBGA (7x7) | Data Converters                 | A/D 12x12b, D/A 2x12b      |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                    | 16-Bit                                                                                       | Core Processor                  | MSP430                     |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                 | SPI, UART/USART                                                                              |                                 |                            |
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|  | Part#: <a href="#">MSP430FG4270IRGZR</a><br>Description: <a href="#">IC MCU 16BIT 32KB FLASH 48VQFN</a>  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430FG437IPN</a><br>Description: <a href="#">IC MCU 16BIT 32KB FLASH 80LQFP</a>     | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430FG4270IDL</a><br>Description: <a href="#">IC MCU 16BIT 32KB FLASH 48SSOP</a>    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430FG4616IZQWR</a><br>Description: <a href="#">IC MCU 16BIT 92KB FLASH 113BGA</a>  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430FG4616IZQW</a><br>Description: <a href="#">IC MCU 16BIT 92KB FLASH 113BGA</a>   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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