

MSP430F412IRTDR



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Part Number: [MSP430F412IRTDR](#)

Manufacturer: [N/A](#)

Description: [IC MCU 16BIT 4KB FLASH 64VQFN](#)

Data sheet:

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

Ship From: [Hong Kong](#)

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                  |                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                 | MSP430F412IRTDR                            | Manufacturer                     | N/A                                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 4KB FLASH 64VQFN              | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                               |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                          | 58705 pcs                                  | Data sheet                       |                                                                                          |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a>  | Voltage - Supply (Vcc/Vdd)       | 1.8 V ~ 3.6 V                                                                            |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                     | 64-VQFN (9x9)                              | Speed                            | 8MHz                                                                                     |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                      | MSP430x4xx                                 | RAM Size                         | 256 x 8                                                                                  |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                         | FLASH                                      | Program Memory Size              | 4KB (4K x 8 + 256B)                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                 | Brown-out Detect/Reset, LCD, POR, PWM, WDT | Packaging                        | Tape & Reel (TR)                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                              | 64-VFQFN Exposed Pad                       | Other Names                      | 296-43085-2<br>MSP430F412IRTDR-ND                                                        |
| 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                                                                                                                                                                                                                                                                                                                                                                                             | 20 Weeks                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                               |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                          | Detailed Description             | MSP430 MSP430x4xx Microcontroller IC 16-Bit 8MHz 4KB (4K x 8 + 256B) FLASH 64-VQFN (9x9) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                             | Slope A/D                                  | Core Size                        | 16-Bit                                                                                   |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                              | MSP430                                     | Connectivity                     | -                                                                                        |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                            | MSP430F412                                 |                                  |                                                                                          |
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|  | Part#: <a href="#">MSP430F4132IPMR</a><br>Description: <a href="#">IC MCU 16BIT 8KB FLASH 64LQFP</a>    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430F2619TPNR</a><br>Description: <a href="#">IC MCU 16BIT 120KB FLASH 80LQFP</a>  | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
|  | Part#: <a href="#">MSP430F2619TPN</a><br>Description: <a href="#">IC MCU 16BIT 120KB FLASH 80LQFP</a>   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430F413IRTDR</a><br>Description: <a href="#">IC MCU 16BIT 8KB FLASH 64VQFN</a>    | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430F4132IRGZR</a><br>Description: <a href="#">IC MCU 16BIT 8KB FLASH 48VQFN</a>   | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">MSP430F412IPMR</a><br>Description: <a href="#">IC MCU 16BIT 4KB FLASH 64LQFP</a>     | Manufacturers: <a href="#">N/A</a> | <div>RFQ</div> |
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