

M30878FJGP#U3



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**Part Number:** [M30878FJGP#U3](#)

**Manufacturer:** [Renesas Electronics America](#)

**Description:** IC MCU 32BIT 512KB FLASH 144QFP

**Data sheet:**  [M32C/87 Hardware Manual](#)  
 [M32C/87 Datasheet](#)

**RoHs Status:** Lead free / RoHS Compliant

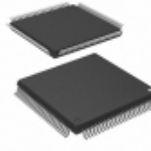
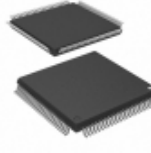
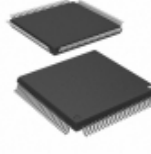
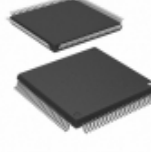
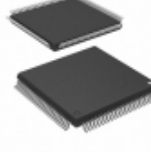
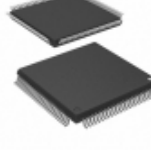
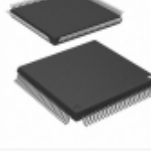
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| PRODUCT PARAMETER                |                                           |                                |                                                                                                      |
|----------------------------------|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------|
| Part Number                      | M30878FJGP#U3                             | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                          |
| Description                      | IC MCU 32BIT 512KB FLASH 144QFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                           |
| Quantity Available               | 4943 pcs                                  | Data sheet                     | <a href="#">M32C/87 Hardware Manual</a><br><a href="#">M32C/87 Datasheet</a>                         |
| Category                         | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 3 V ~ 5.5 V                                                                                          |
| Supplier Device Package          | 144-LFQFP (20x20)                         | Speed                          | 32MHz                                                                                                |
| Series                           | M16C™ M32C/80/87                          | RAM Size                       | 31K x 8                                                                                              |
| Program Memory Type              | FLASH                                     | Program Memory Size            | 512KB (512K x 8)                                                                                     |
| Peripherals                      | DMA, POR, PWM, WDT                        | Packaging                      | Tray                                                                                                 |
| Package / Case                   | 144-LQFP                                  | Oscillator Type                | Internal                                                                                             |
| Operating Temperature            | -40°C ~ 85°C (TA)                         | Number of I/O                  | 121                                                                                                  |
| Moisture Sensitivity Level (MSL) | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                           |
| EEPROM Size                      | -                                         | Detailed Description           | M32C/80 M16C™ M32C/80/87 Microcontroller IC 16/32-Bit 32MHz 512KB (512K x 8) FLASH 144-LFQFP (20x20) |
| Data Converters                  | A/D 34x10b, D/A 2x8b                      | Core Size                      | 16/32-Bit                                                                                            |
| Core Processor                   | M32C/80                                   | Connectivity                   | CANbus, EBI/EMI, I²C, IEBus, IrDA, SIO, UART/USART                                                   |
| Base Part Number                 | M30878                                    |                                |                                                                                                      |

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