

DF2148AFA20V



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Part Number: [DF2148AFA20V](#)

Manufacturer: [Renesas Electronics America](#)

Description: IC MCU 16BIT 128KB FLASH 100QFP

Data sheet:  [H8S/2148, H8S/2144 Group Hrdw Manual](#)

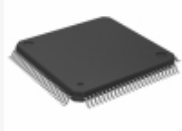
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |                                |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DF2148AFA20V                              | Manufacturer                   | <a href="#">Renesas Electronics America</a>                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IC MCU 16BIT 128KB FLASH 100QFP           | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                   |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6021 pcs                                  | Data sheet                     | <a href="#">H8S/2148, H8S/2144 Group Hrdw Manual</a>                                         |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 4 V ~ 5.5 V                                                                                  |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100-QFP (14x14)                           | Speed                          | 20MHz                                                                                        |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H8® H8S/2100                              | RAM Size                       | 4K x 8                                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FLASH                                     | Program Memory Size            | 128KB (128K x 8)                                                                             |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | POR, PWM, WDT                             | Packaging                      | Tray                                                                                         |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100-BFQFP                                 | Oscillator Type                | Internal                                                                                     |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -20°C ~ 75°C (TA)                         | Number of I/O                  | 74                                                                                           |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3 (168 Hours)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                                   |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                         | Detailed Description           | H8S/2000 H8® H8S/2100 Microcontroller IC 16-Bit 20MHz 128KB (128K x 8) FLASH 100-QFP (14x14) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A/D 8x10b; D/A 2x8b                       | Core Size                      | 16-Bit                                                                                       |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | H8S/2000                                  | Connectivity                   | Host Interface, I²C, IrDA, SCI                                                               |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DF2148                                    |                                |                                                                                              |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                            |                |
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Related keywords for DF2148AFA20V

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