

| Specifications                 |                                                         |
|--------------------------------|---------------------------------------------------------|
| Part Number                    | FS32K148HAT0MLUT                                        |
| Manufacturer                   | NXP Semiconductors / Freescale                          |
| Description                    | S32K148 32-BIT MCU ARM                                  |
| Category                       | Integrated Circuits (ICs) > Embedded - Microcontrollers |
| Part Status                    | 2576 pcs Stock                                          |
| Voltage - Supply (Vcc/Vdd)     | 2.7 V ~ 5.5 V                                           |
| Supplier Device Package        | 176-LQFP (24x24)                                        |
| Speed                          | 80MHz                                                   |
| Series                         | S32K                                                    |
| RAM Size                       | 256K x 8                                                |
| Program Memory Type            | FLASH                                                   |
| Program Memory Size            | 2MB (2M x 8)                                            |
| Peripherals                    | I²S, POR, PWM, WDT                                      |
| Packaging                      | Tray                                                    |
| Package / Case                 | 176-LQFP                                                |
| Other Names                    | 935370338557                                            |
| Oscillator Type                | Internal                                                |
| Operating Temperature          | -40°C ~ 125°C (TA)                                      |
| Lead Free Status / RoHS Status | Lead free / RoHS Compliant                              |
| EEPROM Size                    | 4K x 8                                                  |
| Detailed Description           | ARM® Cortex®-M4F S32K Microcontroller IC 32-Bit         |
| Data Converters                | A/D 32x12b, D/A 1x8b                                    |
| Core Size                      | 32-Bit                                                  |
| Core Processor                 | ARM® Cortex®-M4F                                        |
| Connectivity                   | CANbus, Ethernet, FlexIO, I²C, LINbus, SPI,             |

| In:                                                                                                                                                                              |                                                                                                                                                                                  |                                                                                                                                                                                   |                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>FS32K148HET0CLQT</b><br/>NXP Semiconductors / Freescale<br/>S32K148 32-BIT MCU ARM</p> |  <p><b>FS32K148HAT0VLQT</b><br/>NXP Semiconductors / Freescale<br/>S32K148 32-BIT MCU ARM</p> |  <p><b>FS32K146UAT0VLQT</b><br/>NXP Semiconductors / Freescale<br/>S32K146 144 LQFP</p>       |  <p><b>FS32K148HET0MLQR</b><br/>NXP Semiconductors / Freescale<br/>S32K148 32-BIT MCU ARM</p> |
|  <p><b>FS32K146UAT0VMH</b><br/>FREESCALE<br/>FREESCALE New</p>                                |  <p><b>FS32K148HAT0MLU</b><br/>FREESCALE<br/>FREESCALE QFP176</p>                             |  <p><b>FS32K148HAT0MLQT</b><br/>NXP Semiconductors / Freescale<br/>S32K148 32-BIT MCU ARM</p> |  <p><b>FS32K148HET0CLQR</b><br/>NXP Semiconductors / Freescale<br/>S32K148 32-BIT MCU ARM</p> |

|                                                 |                               |                              |                        |                                                 |
|-------------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------------------|
| FS32K148HAT0MLUT NXP Semiconductors / Freescale | FS32K148HAT0MLUT Data Sheet   | FS32K148HAT0MLUT Datasheets  | FS32K148HAT0MLUT PDF   | NXP Semiconductors / Freescale FS32K148HAT0MLUT |
| FS32K148HAT0MLUT Electronic                     | FS32K148HAT0MLUT Components   | FS32K148HAT0MLUT Distributor | FS32K148HAT0MLUT Image | FS32K148HAT0MLUT Part                           |
| FS32K148HAT0MLUT Price                          | FS32K148HAT0MLUT Manufacturer | FS32K148HAT0MLUT Picture     | FS32K148HAT0MLUT Stock | FS32K148HAT0MLUT Inventory                      |
| FS32K148HAT0MLUT New                            | FS32K148HAT0MLUT Original     | FS32K148HAT0MLUT Warranted   | FS32K148HAT0MLUT RFQ   | FS32K148HAT0MLUT Order Online                   |