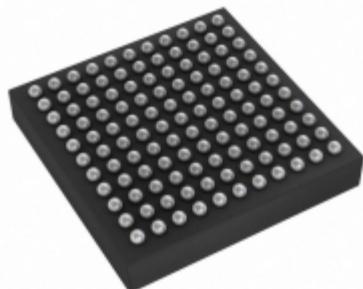


S6E2HE6G0AGB3000A





Part Number:

S6E2HE6G0AGB3000A

Manufacturer:

Cypress Semiconductor

Description:

IC MCU 32BIT 544KB FLASH 121BGA

Data sheet:

 [S6E2HE Series](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

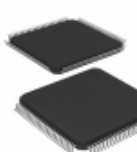
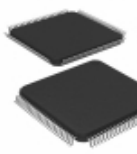
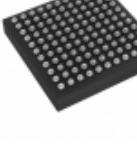
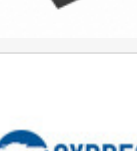
Shipment Way:

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |                                  |                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S6E2HE6G0AGB3000A                         | Manufacturer                     | <a href="#">Cypress Semiconductor</a>                                                              |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 544KB FLASH 121BGA           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13129 pcs                                 | Data sheet                       | <a href="#">S6E2HE Series</a>                                                                      |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.7 V ~ 5.5 V                                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 121-FBGA (6x6)                            | Speed                            | 160MHz                                                                                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FM4 S6E2HE                                | RAM Size                         | 64K x 8                                                                                            |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                     | Program Memory Size              | 544KB (544K x 8)                                                                                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DMA, LVD, POR, PWM, WDT                   | Packaging                        | Tray                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 121-TFBGA                                 | Other Names                      | 428-3697<br>S6E2HE6G0AGB30000<br>S6E2HE6G0AGB30000-ND                                              |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                  | Operating Temperature            | -40°C ~ 125°C (TA)                                                                                 |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100                                       | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                      |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28 Weeks                                  | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                         | Detailed Description             | ARM® Cortex®-M4F FM4 S6E2HE Microcontroller IC 32-Bit 160MHz 544KB (544K x 8) FLASH 121-FBGA (6x6) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A/D 24x12b. D/A 2x12b                     | Core Size                        | 32-Bit                                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-M4F                          | Connectivity                     | CSIO, EBI/EMI, PC, LINbus, SD, UART/USART                                                          |
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|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------|----------------|
|  | Part#: <a href="#">S6E2H46F0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE6F0AGV2000A</a><br>Description: IC MCU 32BIT 544KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE6G0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2H46E0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 80LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE4G0AGB3000A</a><br>Description: IC MCU 32BIT 288KB FLASH 121BGA  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG6G0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2H46G0AGB3000A</a><br>Description: IC MCU 32BIT 544KB FLASH 121BGA  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE4G0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE4E0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 80LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG4F0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG4G0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE6G0AGV2B000</a><br>Description: INTEGRATED CIRCUIT               | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE4F0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 100LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2H46G0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 120LQFP | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG6G0AGB3000A</a><br>Description: IC MCU 32BIT 544KB FLASH 121BGA  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG4G0AGB3000A</a><br>Description: IC MCU 32BIT 288KB FLASH 121BGA  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HG4E0AGV20000</a><br>Description: IC MCU 32BIT 288KB FLASH 80LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
|  | Part#: <a href="#">S6E2HE6E0AGV20000</a><br>Description: IC MCU 32BIT 544KB FLASH 80LQFP  | Manufacturers: <a href="#">Cypress Semiconductor</a> | <div>RFQ</div> |
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