

Image may be representation.  
See specifications for product details.



## 5CSEBA2U23C8SN

|                          |  |
|--------------------------|--|
| Manufacturer Part Number | <b>5CSEBA2U23C8SN</b>  |
| Manufacturer             | <b>Intel</b>   |
| Allelco Part Number      | 32D-5CSEBA2U23C8SN   |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode  |
| Parts Description        | IC SOC CORTEX-A9 600MHZ 672UBGA  |
| Package                  | 672-FBGA   |
| Data sheet               | <a href="#">Cyclone V Device Handbook.pdf</a><br><a href="#">Cyclone V Device Overview.pdf</a> |
| RoHs Status              | RoHS Compliant   |

**Get a Quote**

5CSEBA2U23C8SN - Intel.New Original in Stock. Download Linear Technology 5CSEBA2U23C8SN datasheet/specifications on AllelcoElec.com.  
Request a quote for 5CSEBA2U23C8SN, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

5CSEBA2U23C8SN Tech Specifications

5CSEBA2U23C8SN - Intel technical specifications, attributes, parameters

| Product Attribute       | Attribute Value           | Product Attribute     | Attribute Value   |
|-------------------------|---------------------------|-----------------------|---|
| Manufacturer            | Intel                     | Package               | Tray  |
| Supplier Device Package | 672-UBGA (23x23)          | Operating Temperature | 0°C ~ 85°C (TJ)   |
| Speed                   | 600MHz                    | Number of I/O         | MCU - 181, FPGA - 145   |
| Series                  | Cyclone® V SE             | Flash Size            | -   |
| RAM Size                | 64KB                      | Core Processor        | Single ARM® Cortex®-A9 MPCore™ with CoreSight™                        |
| Primary Attributes      | FPGA - 25K Logic Elements | Connectivity          | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG |
| Peripherals             | DMA, POR, WDT             | Architecture          | MCU, FPGA   |
| Package / Case          | 672-FBGA                  |                       |   |

### Parts with Similar Specifications

The three parts on the right have similar specifications to Intel 5CSEBA2U23C8SN

| Product Attribute       |   |   |   |   |
|-------------------------|---|---|---|---|
| Part Number             | 5CSEBA2U23C8SN  | 5CSEBA2U19C8N   | 5CSEBA2U23C8N   | 5CSEBA2U19I7SN  |
| Manufacturer            | Intel   | Intel   | Intel   | Intel   |
| Peripherals             | DMA, POR, WDT   | DMA, POR, WDT   | DMA, POR, WDT   | DMA, POR, WDT   |
| Number of I/O           | MCU - 181, FPGA - 145   | MCU - 151, FPGA - 66  | MCU - 181, FPGA - 145   | MCU - 151, FPGA - 66  |
| Speed                   | 600MHz  | 600MHz  | 600MHz  | 800MHz  |
| RAM Size                | 64KB  | 64KB  | 64KB  | 64KB  |
| Flash Size              | -   | -   | -   | -   |
| Core Processor          | Single ARM® Cortex®-A9 MPCore™ with CoreSight™                        | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™                          | Dual ARM® Cortex®-A9 MPCore™ with CoreSight™                          | Single ARM® Cortex®-A9 MPCore™ with CoreSight™                        |
| Connectivity            | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG |
| Supplier Device Package | 672-UBGA (23x23)  | 484-UBGA (19x19)  | 672-UBGA (23x23)  | 484-UBGA (19x19)  |
| Package / Case          | 672-FBGA  | 484-FBGA  | 672-FBGA  | 484-FBGA  |
| Architecture            | MCU, FPGA   | MCU, FPGA   | MCU, FPGA   | MCU, FPGA   |
| Operating Temperature   | 0°C ~ 85°C (TJ)   | 0°C ~ 85°C (TJ)   | 0°C ~ 85°C (TJ)   | -40°C ~ 100°C (TJ)  |
| Series                  | Cyclone® V SE   | Cyclone® V SE   | Cyclone® V SE   | Cyclone® V SE   |
| Primary Attributes      | FPGA - 25K Logic Elements   | FPGA - 25K Logic Elements   | FPGA - 25K Logic Elements   | FPGA - 25K Logic Elements   |
| Package                 | Tray  | Tray  | Tray  | Tray  |

### 5CSEBA2U23C8SN Datasheet PDF

Download 5CSEBA2U23C8SN pdf datasheets and Intel documentation for 5CSEBA2U23C8SN - Intel.

#### Datasheets

- [Cyclone V Device Handbook.pdf](#)
- [Cyclone V Device Overview.pdf](#)

#### PCN Packaging

- [Mult Dev Label CHG 24/Jan/2020.pdf](#)
- [Mult Dev Label Chgs 24/Feb/2020.pdf](#)

#### PCN Design/Specification

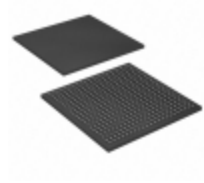

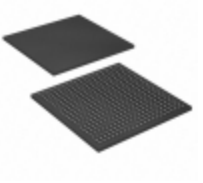



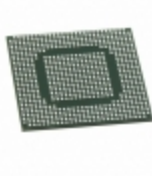

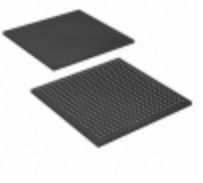
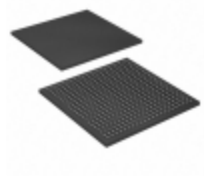

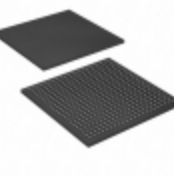
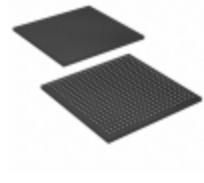

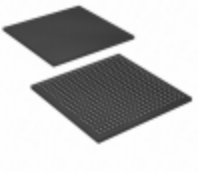
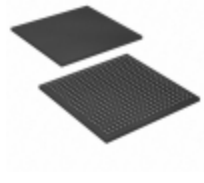

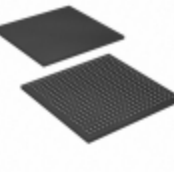
- [Quartus SW/Web Chgs 23/Sep/2021.pdf](#)
- [Mult Dev Software Chgs 3/Jun/2021.pdf](#)

#### Errata

- [2.73KHz.pdf](#)

### Customers Also Interested in

## Recommended Products

|   |   |   |  |   |   |
|---|---|---|--|---|---|
|   |   |   |   |   |   |
| <b>5CSEBA2U19C8N</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>484UBGA               | <b>5CSEBA2U23C8N</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>672UBGA               | <b>5CSEBA2U19I7SN</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>484UBGA              | <b>5CSEBA2U23C7SN</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>672UBGA               | <b>5CSEBA2U23C7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>672UBGA                 | <b>5CSEBA4U23C6N</b><br>Intel<br>IC SOC CORTEX-A9 925MHZ<br>672UBGA                 |
|  |  |  |  |  |  |
| <b>5CSEBA4U23I7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>672UBGA               | <b>5CSEBA2U23I7NCZ</b><br>Altera (Intel)  | <b>5CSEBA5U19C8N</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>484UBGA               | <b>5CSEBA5U19I7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>484UBGA                | <b>5CSEBA2U23C6N</b><br>Intel<br>IC SOC CORTEX-A9 925MHZ<br>672UBGA                 | <b>5CSEBA5U19C7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>484UBGA                 |
|  |  |  |  |  |  |
| <b>5CSEBA2U19I7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>484UBGA               | <b>5CSEBA4U23C8N</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>672UBGA               | <b>5CSEBA4U19C8SN</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>484UBGA              | <b>5CSEBA2U19C8SN</b><br>Intel<br>IC SOC CORTEX-A9 600MHZ<br>484UBGA               | <b>5CSEBA2U23A7N</b><br>Intel<br>IC SOC CORTEX-A9 700MHZ<br>672UBGA                 | <b>5CSEBA4U19C7N</b><br>Intel<br>IC SOC CORTEX-A9 800MHZ<br>484UBGA                 |

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

### Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

| Common Countries Logistic Time Reference |                |                    |
|--|----------------|--------------------|
| Region                                   | Country        | Logistic Time(Day) |
| America                                  | United States  | 5                  |
|  | Brazil         | 7                  |
| Europe                                   | Germany        | 5                  |
|  | United Kingdom | 4                  |
|  | Italy          | 5                  |
| Oceania                                  | Australia      | 6                  |
|  | New Zealand    | 7                  |
| Asia                                     | India          | 6                  |
|  | Japan          | 7                  |
| Middle East                              | Israel         | 6                  |

| DHL & FedEx Shipment Charges Reference |                      |
|--|----------------------|
| Shipment charges(KG)                   | Reference DHL(USD\$) |
| 0.00kg-1.00kg                          | USD\$60.00           |
| 1.00kg-2.00kg                          | USD\$70.00           |
| 2.00kg-3.00kg                          | USD\$80.00           |

**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

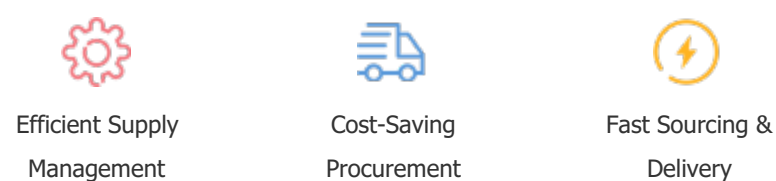
## Payment Support

The payment method can be chosen from the methods shown below:

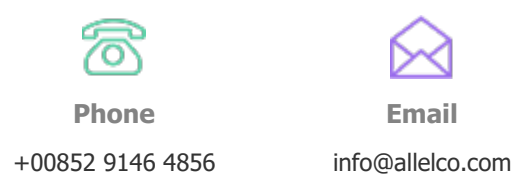
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



## Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Phone  
+00852 9146 4856

Email  
info@allelco.com

## Certifications & Memberships



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