

Image may be representation.
See specifications for product details.



5CSEMA4U23I7N

Manufacturer Part Number	5CSEMA4U23I7N
Manufacturer	Intel
Allelco Part Number	32D-5CSEMA4U23I7N
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	IC SOC CORTEX-A9 800MHZ 672UBGA
Package	672-FBGA
Data sheet	Cyclone V Device Handbook.pdf Cyclone V Device Overview.pdf
RoHs Status	RoHS Compliant

Get a Quote

5CSEMA4U23I7N - Intel.New Original in Stock. Download Linear Technology 5CSEMA4U23I7N datasheet/specifications on AllelcoElec.com.
Request a quote for 5CSEMA4U23I7N, please send us email: info@allelco.com

Specifications

5CSEMA4U23I7N Tech Specifications

5CSEMA4U23I7N - 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	-40°C ~ 100°C (TJ)
Speed	800MHz	Number of I/O	MCU - 181, FPGA - 145
Series	Cyclone® V SE	Flash Size	-
RAM Size	64KB	Core Processor	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™
Primary Attributes	FPGA - 40K Logic Elements	Connectivity	CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG
Peripherals	DMA, POR, WDT	Base Product Number	5CSEMA4
Package / Case	672-FBGA	Architecture	MCU, FPGA

Parts with Similar Specifications

The three parts on the right have similar specifications to Intel 5CSEMA4U23I7N

Product Attribute				
Part Number	5CSEMA4U23I7N	5CSEBA6U23C8N	5CSEMA6F31C7N	5CSEMA5F31A7N
Manufacturer	Intel	Intel	Intel	Intel
Series	Cyclone® V SE	Cyclone® V SE	Cyclone® V SE	Automotive, AEC-Q100, Cyclone® V SE
Primary Attributes	FPGA - 40K Logic Elements	FPGA - 110K Logic Elements	FPGA - 110K Logic Elements	FPGA - 85K Logic Elements
Speed	800MHz	600MHz	800MHz	700MHz
Number of I/O	MCU - 181, FPGA - 145	MCU - 181, FPGA - 145	MCU - 181, FPGA - 288	MCU - 181, FPGA - 288
RAM Size	64KB	64KB	64KB	64KB
Supplier Device Package	672-UBGA (23x23)	672-UBGA (23x23)	896-FBGA (31x31)	896-FBGA (31x31)
Package / Case	672-FBGA	672-FBGA	896-BGA	896-BGA
Flash Size	-	-	-	-
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
Architecture	MCU, FPGA	MCU, FPGA	MCU, FPGA	MCU, FPGA
Operating Temperature	-40°C ~ 100°C (TJ)	0°C ~ 85°C (TJ)	0°C ~ 85°C (TJ)	-40°C ~ 125°C (TJ)
Peripherals	DMA, POR, WDT	DMA, POR, WDT	DMA, POR, WDT	DMA, POR, WDT
Core Processor	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™
Base Product Number	5CSEMA4	5CSEBA6	5CSEMA6	5CSEMA5
Package	Tray	Tray	Tray	Tray

5CSEMA4U23I7N Datasheet PDF

Download 5CSEMA4U23I7N pdf datasheets and Intel documentation for 5CSEMA4U23I7N - 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

					
5CSEBA6U23C8N Intel IC SOC CORTEX-A9 600MHZ 672UBGA	5CSEMA6F31C7N Intel IC SOC CORTEX-A9 800MHZ 896FBGA	5CSEMA5F31A7N Intel IC SOC CORTEX-A9 700MHZ 896FBGA	5CSEMA4U23C8N Intel IC SOC CORTEX-A9 600MHZ 672UBGA	5CSEMA6U23C8N Intel IC SOC CORTEX-A9 600MHZ 672UBGA	5CSEMA5U23I7N Intel IC SOC CORTEX-A9 800MHZ 672UBGA
					
5CSEMA2U23I7N Intel IC SOC CORTEX-A9 800MHZ 672UBGA	5CSEMA6F31C8N Intel IC SOC CORTEX-A9 600MHZ 896FBGA	5CSEBA6U23I7N Intel IC SOC CORTEX-A9 800MHZ 672UBGA	5CSEMA5F31I7N Intel IC SOC CORTEX-A9 800MHZ 896FBGA	5CSEMA5U23C6N Intel IC SOC CORTEX-A9 925MHZ 672UBGA	5CSEBA6U23C8SN Intel IC SOC CORTEX-A9 600MHZ 672UBGA
					
5CSEBA6U23I7SN Intel IC SOC CORTEX-A9 800MHZ 672UBGA	5CSEMA5F31C7N Intel IC SOC CORTEX-A9 800MHZ 896FBGA	5CSEMA5F31C6N Intel IC SOC CORTEX-A9 925MHZ 896FBGA	5CSEMA5F31C8N Intel IC SOC CORTEX-A9 600MHZ 896FBGA	5CSEBA6U23C7N Intel IC SOC CORTEX-A9 800MHZ 672UBGA	5CSEMA2U23C7N Intel IC SOC CORTEX-A9 800MHZ 672UBGA

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.

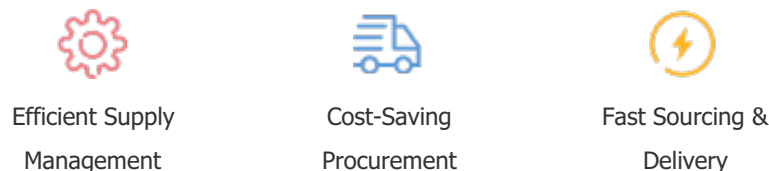
Payment Support

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

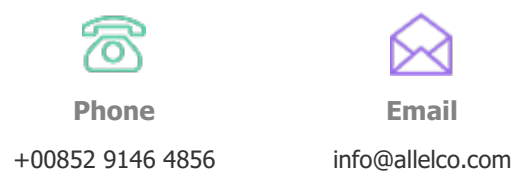
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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