

5CSEMA4U23C6N



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Part Number: 5CSEMA4U23C6N

Manufacturer: [Altera \(Intel® Programmable Solutions Group\)](#)

Description IC FPGA 224 I/O 672UBGA

Data sheet:  [Cyclone V Device Overview](#)
 [Cyclone V GX,GT,E Errata](#)
 [Cyclone V Device Datasheet](#)
 [Cyclone V Device Handbook](#)

RoHs Status: Lead free / RoHS Compliant

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PRODUCT PARAMETER			
Part Number	5CSEMA4U23C6N	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 224 I/O 672UBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	721 pcs	Data sheet	Cyclone V Device Overview Cyclone V GX,GT,E Errata Cyclone V Device Datasheet Cyclone V Device Handbook
Category	Integrated Circuits (ICs)	Supplier Device Package	672-UBGA (23x23)
Speed	925MHz	Series	Cyclone® V SE
RAM Size	64KB	Primary Attributes	FPGA - 40K Logic Elements
Peripherals	DMA, POR, WDT	Packaging	Tray
Package / Case	672-FBGA	Other Names	544-3012
Operating Temperature	0°C ~ 85°C (TJ)	Number of I/O	MCU - 181, FPGA - 145
Moisture Sensitivity Level (MSL)	3 (168 Hours)	Manufacturer Standard Lead Time	15 Weeks
Lead Free Status / RoHS Status	Lead free / RoHS Compliant	Flash Size	-
Detailed Description	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™ System On Chip (SOC) IC Cyclone® V SE FPGA - 40K Logic Elements 64KB 925MHz 672-UBGA (23x23)	Core Processor	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™
Connectivity	CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG	Base Part Number	5CSEMA4
Architecture	MCU, FPGA		
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	Part#: 5CSEMA5F31C6N Description: IC FPGA 288 I/O 896FBGA	Manufacturers: Intel® FPGAs	RFQ
	Part#: 5CSEMA2U23I7N Description: IC FPGA 188 I/O 672UBGA	Manufacturers: Intel® FPGAs	RFQ
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