



Image may be representation.  
See specifications for product details.

### 5CSEMA2U23A7N

Part Number: **5CSEMA2U23A7N**  
 Product Description: IC FPGA 188 I/O 672UBGA  
 RoHs Status: Lead free / RoHS Compliant  
 Datasheets: [5CSEMA2U23A7N.pdf](#)

Manufacturer/Brand: Intel® FPGAs  
 Ship From: Hong Kong  
 Shipment Way: DHL/Fedex/TNT/UPS/EMS

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#### Product details

<b>Part Number</b>	5CSEMA2U23A7N	<b>Manufacturer</b>	Intel® FPGAs
<b>Description</b>	IC FPGA 188 I/O 672UBGA	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Data sheet</b>	<a href="#">5CSEMA2U23A7N.pdf</a>		
<b>Supplier Device Package</b>	672-UBGA (23x23)	<b>Speed</b>	700MHz
<b>Series</b>	Automotive, AEC-Q100, Cyclone® V SE	<b>RAM Size</b>	64KB
<b>Primary Attributes</b>	FPGA - 25K Logic Elements	<b>Peripherals</b>	DMA, POR, WDT
<b>Packaging</b>	Tray	<b>Package / Case</b>	672-FBGA
<b>Operating Temperature</b>	-40°C ~ 125°C (TJ)	<b>Number of I/O</b>	MCU - 181, FPGA - 145
<b>Moisture Sensitivity Level (MSL)</b>	3 (168 Hours)	<b>Manufacturer Standard Lead Time</b>	15 Weeks
<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant	<b>Flash Size</b>	-
<b>Detailed Description</b>	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™ System On Chip (SOC) IC Automotive, AEC-Q100, Cyclone® V SE FPGA - 25K Logic Elements 64KB 700MHz 672-UBGA (23x23)	<b>Core Processor</b>	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™
<b>Connectivity</b>	CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG	<b>Architecture</b>	MCU, FPGA

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