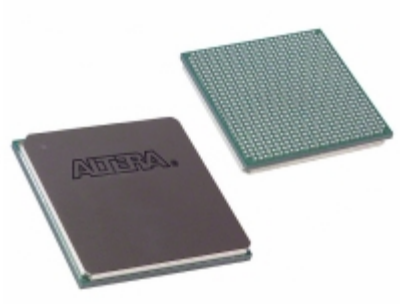


EP4SE230F29C4N



Images are for reference only.
See Product Specifications for product details.
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Part Number: [EP4SE230F29C4N](#)

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

Description: IC FPGA 488 I/O 780FBGA

Data sheet:  [Stratix IV Device Family Overview](#)
 [Stratix IV Devices](#)
 [Stratix IV E Errata](#)
 [Stratix IV Device Handbook Vol.4](#)
 [Stratix IV Device Handbook Vol1](#)
 [Stratix IV Device Handbook Vol.1](#)
 [Virtual JTAG Megafuntion User Guide](#)

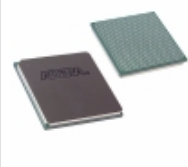
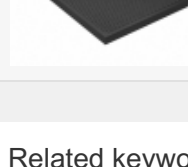
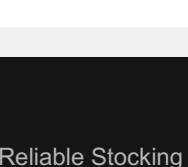
RoHs Status: Lead free / RoHS Compliant

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PRODUCT PARAMETER			
Part Number	EP4SE230F29C4N	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 488 I/O 780FBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	23 pcs	Data sheet	Stratix IV Device Family Overview Stratix IV Devices Stratix IV E Errata Stratix IV Device Handbook Vol.4 Stratix IV Device Handbook Vol1 Stratix IV Device Handbook Vol.1 Virtual JTAG Megafuntion User Guide
Category	Integrated Circuits (ICs)	Voltage - Supply	0.87 V ~ 0.93 V
Total RAM Bits	17544192	Supplier Device Package	780-FBGA (29x29)
Series	STRATIX® IV E	Package / Case	780-BBGA, FCBGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	228000
Number of LABs/CLBs	9120	Number of I/O	488
Mounting Type	Surface Mount	Moisture Sensitivity Level (MSL)	3 (168 Hours)
Lead Free Status / RoHS Status	Lead free / RoHS Compliant	Base Part Number	EP4SE230
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	Part#: EP4S40G5H40I3N Description: IC FPGA 654 I/O 1517HBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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