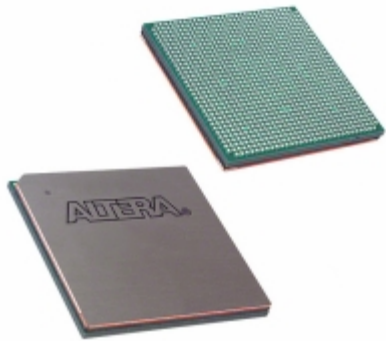


EP20K1000CF33C8ES





Part Number: [EP20K1000CF33C8ES](#)

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

Description: IC FPGA

Data sheet:  [APEX 20KC Datasheet](#)

RoHs Status: Lead free / RoHS Compliant

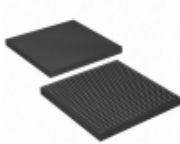
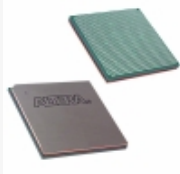
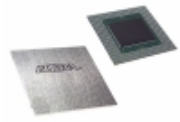
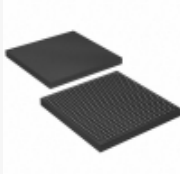
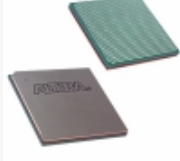
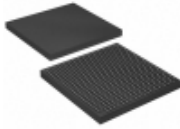
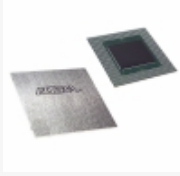
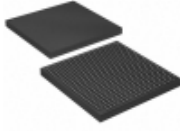
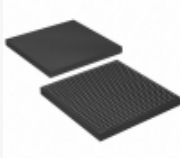
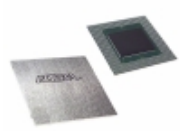
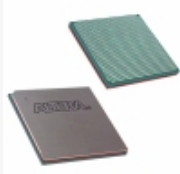
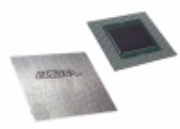
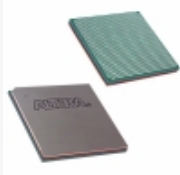
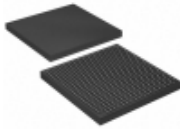
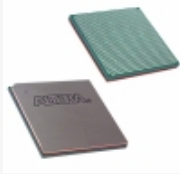
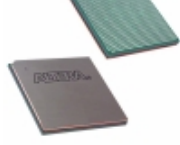
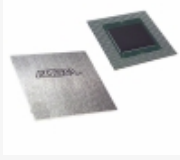
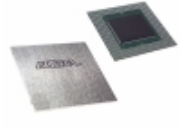
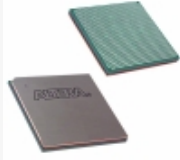
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PRODUCT PARAMETER			
Part Number	EP20K1000CF33C8ES	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	5011 pcs	Data sheet	APEX 20KC Datasheet
Category	Integrated Circuits (ICs)	Voltage - Supply	1.71 V ~ 1.89 V
Total RAM Bits	327680	Supplier Device Package	1020-FBGA (33x33)
Series	APEX-20KC®	Package / Case	1020-BBGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	38400
Number of LABs/CLBs	3840	Number of I/O	708
Number of Gates	1772000	Mounting Type	Surface Mount
Moisture Sensitivity Level (MSL)	3 (168 Hours)	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
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	Part#: EP20K1000CF33C9 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C8 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF672C7GZ Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C8N Description: IC FPGA APEX 20KC 1020-FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C7 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF672C7ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C8N Description: IC FPGA APEX 20KC 652-BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF672C8ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF672C7 Description: IC FPGA 508 I/O 672FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C9 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C8 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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