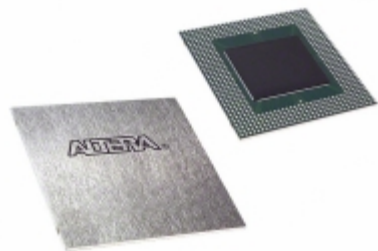


EP20K1000CB652C9ES





Part Number: [EP20K1000CB652C9ES](#)

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

Description: IC FPGA

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

RoHS Status: Lead free / RoHS Compliant

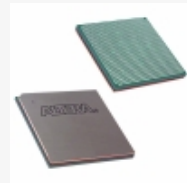
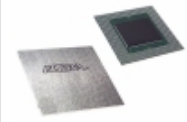
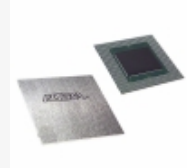
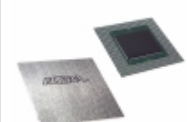
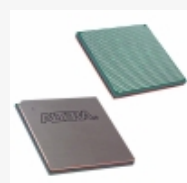
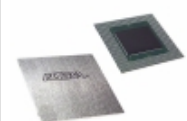
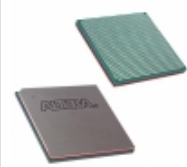
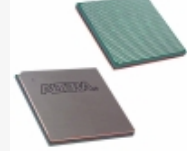
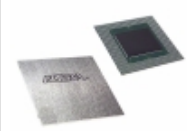
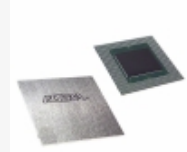
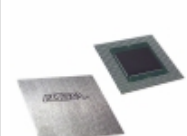
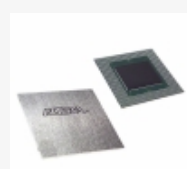
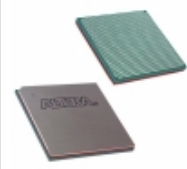
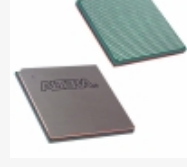
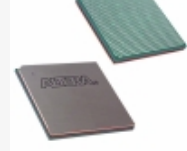
Ship From: Hong Kong

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PRODUCT PARAMETER			
Part Number	EP20K1000CB652C9ES	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	4683 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	652-BGA (45x45)
Series	APEX-20KC®	Package / Case	652-BBGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	38400
Number of LABs/CLBs	3840	Number of I/O	488
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#: EP20K1000CB652C8ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C7ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C9N Description: IC FPGA APEX 20KC 652-BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C8ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C9 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP2020-9R Description: DC/DC CONVERTER 5.1V 12V 187W	Manufacturers: Bel	RFQ
	Part#: EP20K1000CF33C9N Description: IC FPGA APEX 20KC 1020-FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C8N Description: IC FPGA APEX 20KC 1020-FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C7 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C8 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C8N Description: IC FPGA APEX 20KC 652-BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CB652C7N Description: IC FPGA APEX 20KC 652-BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C7ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C7 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C9ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF33C8 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP2024 Description: PANEL STEEL 18.2X22.2" WHT	Manufacturers: Hammond Manufacturing	RFQ
	Part#: EP20K1000CF33C7N Description: IC FPGA APEX 20KC 1020-FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ

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