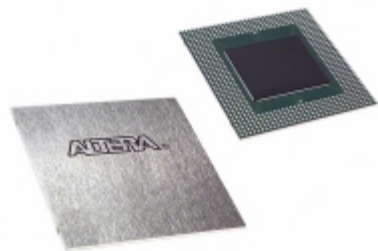


EP20K1000EBI652-2X



Images are for reference only.
See Product Specifications for product details.
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Part Number: [EP20K1000EBI652-2X](#)

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

Description IC FPGA 488 I/O 652BGA

Data sheet:  [APEX 20K Family Datasheet](#)
 [652-BGA Pkg Info](#)
 [Virtual JTAG Megafuntion User Guide](#)

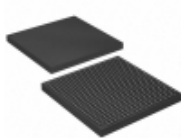
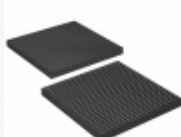
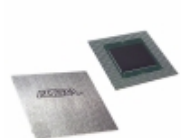
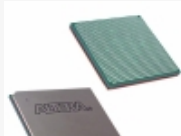
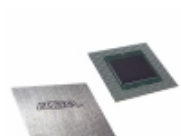
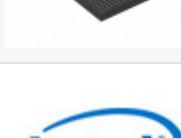
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

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PRODUCT PARAMETER			
Part Number	EP20K1000EBI652-2X	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 488 I/O 652BGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	5588 pcs	Data sheet	APEX 20K Family Datasheet 652-BGA Pkg Info Virtual JTAG Megafuntion User Guide
Category	Integrated Circuits (ICs)	Voltage - Supply	1.71 V ~ 1.89 V
Total RAM Bits	327680	Supplier Device Package	652-BGA (45x45)
Series	APEX-20KE®	Package / Case	652-BBGA
Operating Temperature	-40°C ~ 100°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
Base Part Number	EP20K1000		
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	Part#: EP20K1000EBC652-2X Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EFC33-1X Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K1000EFC672-1 Description: IC FPGA 508 I/O 672FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K1000EFC33-2X Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000CF672C9ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EFC672-1X Description: IC FPGA 508 I/O 672FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EB652C1GZ Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EFC33-3 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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