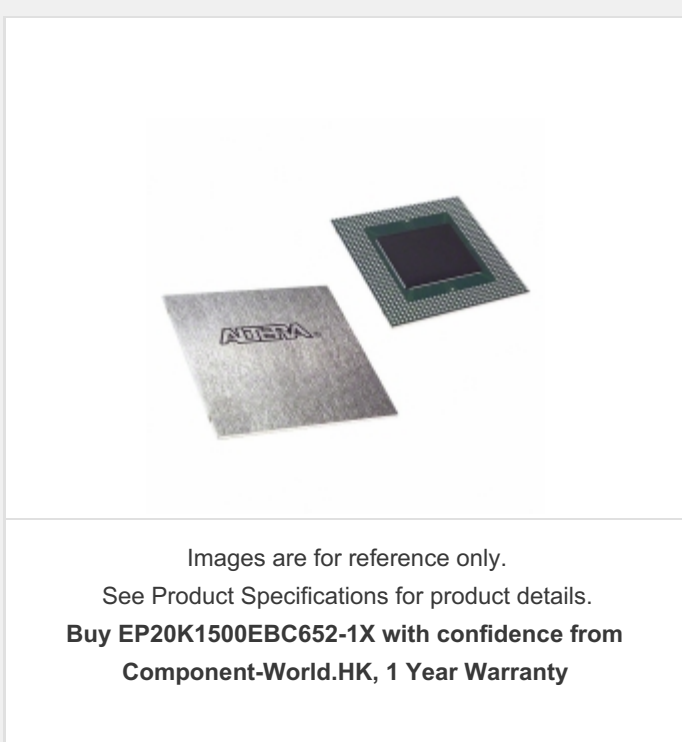


**EP20K1500EBC652-1X**



**Part Number:** [EP20K1500EBC652-1X](#)  
**Manufacturer:** [Altera \(Intel® Programmable Solutions Group\)](#)  
**Description:** IC FPGA 488 I/O 652BGA  
**Data sheet:** [PDF APEX 20K Family Datasheet](#)  
[PDF 652-BGA Pkg Info](#)  
[PDF Virtual JTAG Megafuntion User Guide](#)

**RoHS Status:** Lead free / RoHS Compliant  
**Ship From:** Hong Kong  
**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

[Request For Quotation](#)

PRODUCT PARAMETER			
Part Number	EP20K1500EBC652-1X	Manufacturer	<a href="#">Altera (Intel® Programmable Solutions Group)</a>
Description	IC FPGA 488 I/O 652BGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	4308 pcs	Data sheet	<a href="#">APEX 20K Family Datasheet</a> <a href="#">652-BGA Pkg Info</a> <a href="#">Virtual JTAG Megafuntion User Guide</a>
Category	<a href="#">Integrated Circuits (ICs)</a>	Voltage - Supply	1.71 V ~ 1.89 V
Total RAM Bits	442368	Supplier Device Package	652-BGA (45x45)
Series	APEX-20KE®	Package / Case	652-BBGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	51840
Number of LABs/CLBs	5184	Number of I/O	488
Number of Gates	2392000	Mounting Type	Surface Mount
Moisture Sensitivity Level (MSL)	3 (168 Hours)	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Base Part Number	EP20K1500		

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	Part#: <a href="#">EP20K1500CF33C8</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CF33C7</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC33-2</a> Description: IC FPGA 808 I/O 1020FBGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CF33C7ES</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EBC652-1</a> Description: IC FPGA 488 I/O 652BGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC33-1</a> Description: IC FPGA 808 I/O 1020FBGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC33-2X</a> Description: IC FPGA 808 I/O 1020FBGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EBC652-3</a> Description: IC FPGA 488 I/O 652BGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CF33C9</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CF33C8ES</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC1020-2X</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC33-3</a> Description: IC FPGA 808 I/O 1020FBGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CB652C8ES</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EBC652-2</a> Description: IC FPGA 488 I/O 652BGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CB652C8</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CB652C9</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EFC33-1X</a> Description: IC FPGA 808 I/O 1020FBGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500EBC652-2X</a> Description: IC FPGA 488 I/O 652BGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>
	Part#: <a href="#">EP20K1500CB652C7ES</a> Description: IC FPGA	Manufacturers: <a href="#">Altera (Intel® Programmable Solutions Group)</a>	<a href="#">RFQ</a>

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