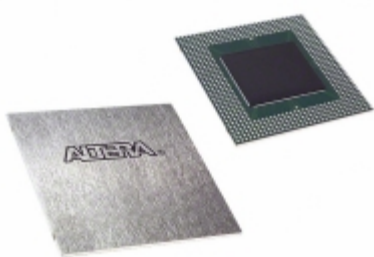


EP20K400EBC652-1





Part Number: [EP20K400EBC652-1](#)

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

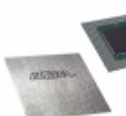
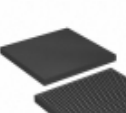
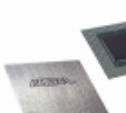
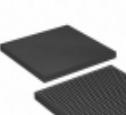
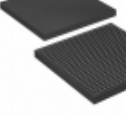
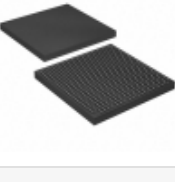
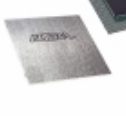
Ship From: Hong Kong

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PRODUCT PARAMETER			
Part Number	EP20K400EBC652-1	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 488 I/O 652BGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	4361 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	212992	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	16640
Number of LABs/CLBs	1664	Number of I/O	488
Number of Gates	1052000	Mounting Type	Surface Mount
Moisture Sensitivity Level (MSL)	3 (168 Hours)	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Base Part Number	EP20K400		
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	Part#: EP20K400CF672C7GA Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K400EBC652-3 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Intel® FPGAs	RFQ
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	Part#: EP20K400EBC652-1X Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K400CF672C9ES Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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