

EP20K1000EFC33-1





Part Number: [EP20K1000EFC33-1](#)

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

Description: IC FPGA 708 I/O 1020FBGA

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

RoHs Status: Lead free / RoHS Compliant

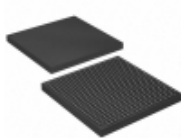
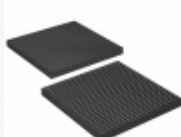
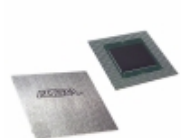
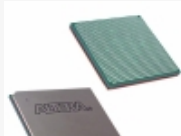
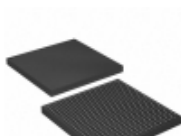
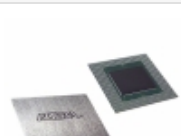
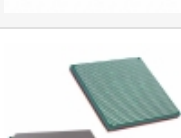
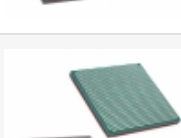
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See Product Specifications for product details.
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PRODUCT PARAMETER			
Part Number	EP20K1000EFC33-1	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 708 I/O 1020FBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	4675 pcs	Data sheet	APEX 20K Family Datasheet 896-FBGA 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	1020-FBGA (33x33)
Series	APEX-20KE®	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
Base Part Number	EP20K1000		
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	Part#: EP20K1000EBC652-1X Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EFC33-2X Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K1000EBC652-3 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EFC672-1X Description: IC FPGA 508 I/O 672FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K1000EFC33-2 Description: IC FPGA 708 I/O 1020FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K1000EBC652-2 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1000EBC652-1 Description: IC FPGA 488 I/O 652BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ

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