

EP20K160EFC144-1



Part Number: [EP20K160EFC144-1](#)

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

Description: IC FPGA

Data sheet:  [APEX 20K](#)

RoHS Status: Lead free / RoHS Compliant

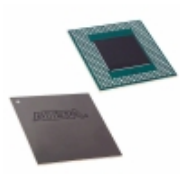
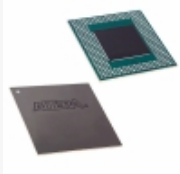
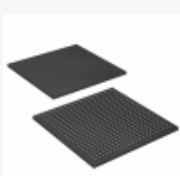
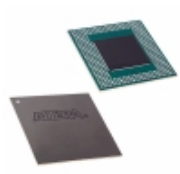
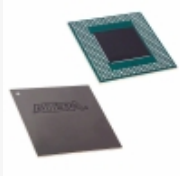
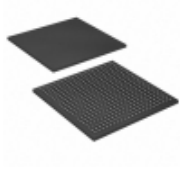
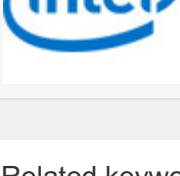
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PRODUCT PARAMETER			
Part Number	EP20K160EFC144-1	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	5333 pcs	Data sheet	APEX 20K
Category	Integrated Circuits (ICs)	Voltage - Supply	1.71 V ~ 1.89 V
Total RAM Bits	81920	Supplier Device Package	144-TQFP (20x20)
Series	APEX-20KE®	Package / Case	144-LQFP
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	6400
Number of LABs/CLBs	640	Number of I/O	88
Number of Gates	404000	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#: EP20K160EBC356-1X Description: IC FPGA 271 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EFC144-3 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EFC484-1X Description: IC FPGA 316 I/O 484FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EBC356-1N Description: IC FPGA 271 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EBC356-3 Description: IC FPGA 271 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EFC400-3 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EBC356-1AA Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1500EGC984-3 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K160EFC400-2 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EFC144-2 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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	Part#: EP20K160EFC484-1 Description: IC FPGA 316 I/O 484FBGA	Manufacturers: Intel® FPGAs	RFQ
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	Part#: EP20K1500XXC Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K160EFC400-1 Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K1500EXXC Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
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