

EP20K60EFC324-1X





Part Number: [EP20K60EFC324-1X](#)

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

Description: IC FPGA 196 I/O 324FBGA

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

RoHs Status: Lead free / RoHS Compliant

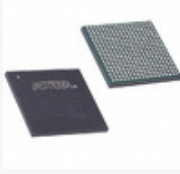
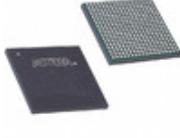
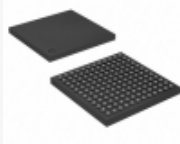
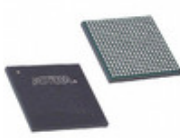
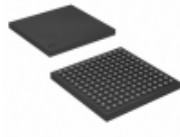
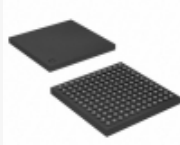
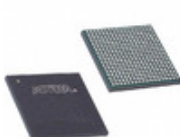
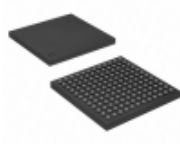
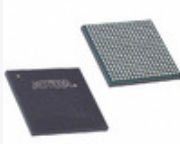
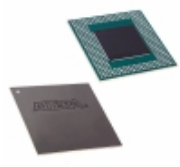
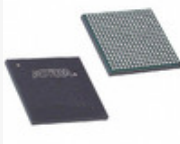
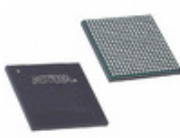
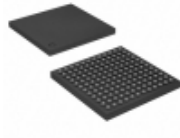
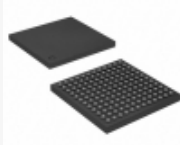
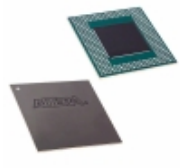
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PRODUCT PARAMETER			
Part Number	EP20K60EFC324-1X	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 196 I/O 324FBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	4194 pcs	Data sheet	APEX 20K Family Datasheet 324-FBGA Pkg Info Virtual JTAG Megafuntion User Guide
Category	Integrated Circuits (ICs)	Voltage - Supply	1.71 V ~ 1.89 V
Total RAM Bits	32768	Supplier Device Package	324-FBGA (19x19)
Series	APEX-20KE®	Package / Case	324-BGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	2560
Number of LABs/CLBs	2560	Number of I/O	196
Number of Gates	162000	Mounting Type	Surface Mount
Moisture Sensitivity Level (MSL)	3 (168 Hours)	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Base Part Number	EP20K60		
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RELATED PRODUCTS			
	Part#: EP20K60EQC208-1 Description: IC FPGA APEX 600K 208PQFP	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-2X Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-1 Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-2 Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-1N Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EQC208-1X Description: IC FPGA 148 I/O 208QFP	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-3 Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-2XN Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-3N Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EQC208-2N Description: IC FPGA 148 I/O 208QFP	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-1X Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-2N Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EBC356-2X Description: IC FPGA 196 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-3 Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-2 Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EQC208-2 Description: IC FPGA 148 I/O 208QFP	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-1 Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-2X Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EBC356-3 Description: IC FPGA 196 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EQC208-1N Description: IC FPGA 148 I/O 208QFP	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ

Related keywords for EP20K60EFC324-1X			
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