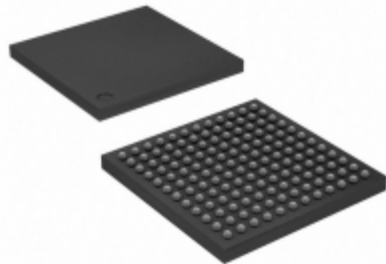


EP20K60EFC144-1X



Images are for reference only.
See Product Specifications for product details.
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Part Number: EP20K60EFC144-1X

Manufacturer: Altera (Intel® Programmable Solutions Group)

Description: IC FPGA 93 I/O 144FBGA

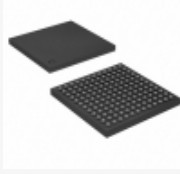
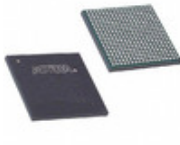
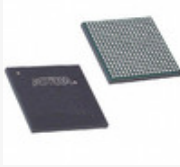
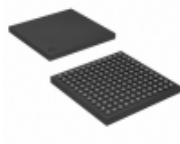
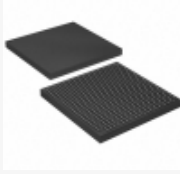
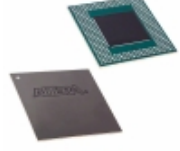
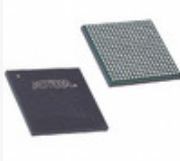
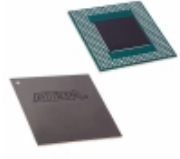
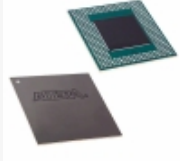
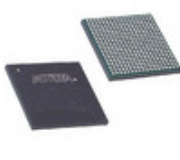
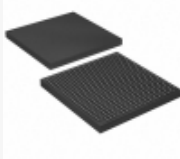
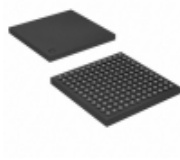
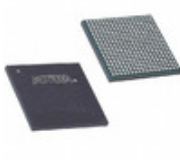
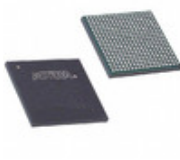
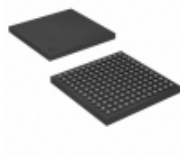
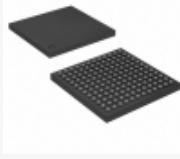
Data sheet:  [APEX 20K Family Datasheet](#)
 [144-FBGA Pkg Info](#)
 [Virtual JTAG Megafuntion User Guide](#)

RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

PRODUCT PARAMETER			
Part Number	EP20K60EFC144-1X	Manufacturer	Altera (Intel® Programmable Solutions Group)
Description	IC FPGA 93 I/O 144FBGA	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	5160 pcs	Data sheet	APEX 20K Family Datasheet 144-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	144-FBGA (13x13)
Series	APEX-20KE®	Package / Case	144-BGA
Operating Temperature	0°C ~ 85°C (TJ)	Number of Logic Elements/Cells	2560
Number of LABs/CLBs	2560	Number of I/O	93
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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	Part#: EP20K60EFC144-1 Description: IC FPGA 93 I/O 144FBGA	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#: EP20K60EFC324-1N Description: IC FPGA 196 I/O 324FBGA	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#: EP20K600EF1672-2X Description: IC FPGA 508 I/O 672FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EBC356-1X Description: IC FPGA 196 I/O 356BGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC324-1X Description: IC FPGA 196 I/O 324FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EBC356-2 Description: IC FPGA 196 I/O 356BGA	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#: EP20K60EFC324-2N Description: IC FPGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K600EF1672-3 Description: IC FPGA	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#: EP20K600EFC784-3 Description: IC FPGA	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#: EP20K60EBC356-1 Description: IC FPGA 196 I/O 356BGA	Manufacturers: Intel® FPGAs	RFQ
	Part#: EP20K60EFC324-1 Description: IC FPGA 196 I/O 324FBGA	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#: EP20K60EFC144-3 Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ
	Part#: EP20K60EFC144-2 Description: IC FPGA 93 I/O 144FBGA	Manufacturers: Altera (Intel® Programmable Solutions Group)	RFQ

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