



Image may be representation.
See specifications for product details.



EP20K160ETC144-2X

Manufacturer Part Number	EP20K160ETC144-2X
Manufacturer	Intel
Allelco Part Number	32D-EP20K160ETC144-2X
ECAD Model	Request Free CAD Models
Parts Description	IC FPGA 88 I/O 144TQFP
Package	144-LQFP
Data sheet	Cylindrical Battery Holders.pdf Virtual JTAG Megafuntnon Guide.pdf

Get a Quote

EP20K160ETC144-2X - Intel.New Original in Stock. Download Linear Technology EP20K160ETC144-2X datasheet/specifications on AllelcoElec.com. Request a quote for EP20K160ETC144-2X, please send us email: info@allelco.com

Specifications

EP20K160ETC144-2X Tech Specifications
EP20K160ETC144-2X - Intel technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Intel	Operating Temperature	0°C ~ 85°C (TJ)
Voltage - Supply	1.71V ~ 1.89V	Number of Logic Elements/Cells	6400
Total RAM Bits	81920	Number of LABs/CLBs	640
Supplier Device Package	144-TQFP (20x20)	Number of I/O	88
Series	APEX-20KE®	Number of Gates	404000
Package / Case	144-LQFP	Mounting Type	Surface Mount
Package	Tray	Base Product Number	EP20K160

Parts with Similar Specifications

The three parts on the right have similar specifications to Intel EP20K160ETC144-2X

Product Attribute				
Part Number	EP20K160ETC144-2X	EP20K160EQC240-2	EP20K200BC356-3	EP20K160EQC208-1
Manufacturer	Intel	Intel	Intel	Intel
Operating Temperature	0°C ~ 85°C (TJ)	0°C ~ 85°C (TJ)	0°C ~ 85°C (TJ)	0°C ~ 85°C (TJ)
Number of Logic Elements/Cells	6400	6400	8320	6400
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	144-LQFP	240-BFQFP	356-LBGA	208-BFQFP
Number of I/O	88	175	277	143
Number of LABs/CLBs	640	640	832	640
Supplier Device Package	144-TQFP (20x20)	240-PQFP (32x32)	356-BGA (35x35)	208-PQFP (28x28)
Series	APEX-20KE®	APEX-20KE®	APEX-20K®	APEX-20KE®
Package	Tray	Tray	Tray	Tray
Number of Gates	404000	404000	526000	404000
Voltage - Supply	1.71V ~ 1.89V	1.71V ~ 1.89V	2.375V ~ 2.625V	1.71V ~ 1.89V
Total RAM Bits	81920	81920	106496	81920
Base Product Number	EP20K160	EP20K160	EP20K200	EP20K160

EP20K160ETC144-2X Datasheet PDF

Download EP20K160ETC144-2X pdf datasheets and Intel documentation for EP20K160ETC144-2X - Intel.

Datasheets

[Virtual JTAG Megafuntnon Guide.pdf](#)

PCN Packaging

[All Dev Pkg Chg 1/Aug/2018.pdf](#)

[Mult Dev Dessicant Chg 19/Jul/2019.pdf](#)

PCN Obsolescence/ EOL

[EOL 01/Dec/2016.pdf](#)

[EOL 21/Nov/2016.pdf](#)

PCN Design/Specification

[Mult Series Software Chgs 26/Mar/2020.pdf](#)

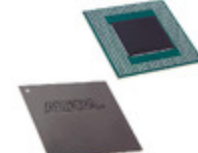
[Appearance Update 30/Mar/2015.pdf](#)

HTML Datasheet

[Cylindrical Battery Holders.pdf](#)

Customers Also Interested in

Recommended Products

					
EP20K160EQC240-2	EP20K200BC356-3	EP20K160EQC208-1	EP20K200CF484C7	EP20K200BC356-1X	EP20K160EFI484-2X
Intel IC FPGA 175 I/O 240QFP	Intel IC FPGA 277 I/O 356BGA	Intel IC FPGA 143 I/O 208QFP	Intel IC FPGA 376 I/O 484FBGA	Intel IC FPGA 277 I/O 356BGA	Intel IC FPGA 316 I/O 484FBGA
					
EP20K160EQC240-1X	EP20K160EQC240-3	EP20K200CF484C7	EP20K160ETC144-1	EP20K200BC356-2	EP20K200CQ240C7
Intel IC FPGA 175 I/O 240QFP	Intel IC FPGA 175 I/O 240QFP	Altera IC FPGA 376 I/O 484FBGA	Intel IC FPGA 88 I/O 144TQFP	Intel IC FPGA 277 I/O 356BGA	Intel IC FPGA 168 I/O 240QFP
					
EP20K160ETC144-3	EP20K200BC356-1	EP20K160EQC208-3N	EP20K200BC356-1	EP20K200CQ240C7	EP20K160EQC240-1
Intel IC FPGA 88 I/O 144TQFP	Intel IC FPGA 277 I/O 356BGA	Intel IC FPGA 143 I/O 208QFP	Altera IC FPGA 277 I/O 356BGA	Altera IC FPGA 168 I/O 240QFP	Intel IC FPGA 175 I/O 240QFP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

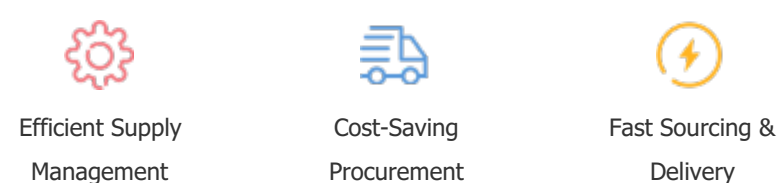
Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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