

**EP20K60EFC144-1X Information**


For Reference Only

**Part Number** [EP20K60EFC144-1X](#)  
**Manufacturer** Altera  
**Category** Integrated Circuits (ICs)  
[Embedded - FPGAs \(Field Programmable Gate Array\)](#)  
**Description** IC FPGA 93 I/O 144FBGA  
**Package** 144-BGA  
 For the pricing/inventory/lead time, please contact us  
 Website: <https://www.heisener.com>  
 E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)


[Request a Quote](#)
**Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.


**EP20K60EFC144-1X Specifications**

Manufacturer Part Number	<a href="#">EP20K60EFC144-1X</a>
Manufacturer	Altera
Category	Integrated Circuits (ICs) <a href="#">Embedded - FPGAs (Field Programmable Gate Array)</a>
Package	144-BGA
Series	APEX-20KE?
Number of LABs/CLBs	2560
Number of Logic Elements/Cells	2560
Total RAM Bits	32768
Number of I/O	93
Number of Gates	162000
Voltage - Supply	1.71 V ~ 1.89 V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	144-BGA
Supplier Device Package	144-FBGA (13x13)

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## EP20K60EFC144-1X Guarantees



### Quality Guarantees

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



### Service Guarantees

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## EP20K60EFC144-1X Payment Methods



## EP20K60EFC144-1X Shipping Methods



If you have any question about EP20K60EFC144-1X, please do not hesitate to contact us!

Website: <https://www.heisener.com>

E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)