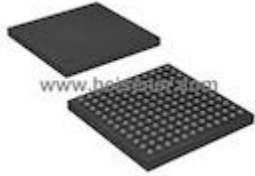


EP20K60EFC144-1 Information


For Reference Only

Part Number [EP20K60EFC144-1](#)
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


[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.


EP20K60EFC144-1 Specifications

Manufacturer Part Number	EP20K60EFC144-1
Manufacturer	Altera
Category	Integrated Circuits (ICs) Embedded - FPGAs (Field Programmable Gate Array)
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)

[Report errors?](#)

EP20K60EFC144-1 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.

EP20K60EFC144-1 Payment Methods



EP20K60EFC144-1 Shipping Methods



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

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

E-mail: salesdept@heisener.com