

FPGA - Field Programmable Gate Array FPGA - Cyclone III 645 LABs 94 IOs

Manufacturers	Altera Corporation (Intel)
Package/Case	QFP144
Product Type	Programmable Logic ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for EP3C10E144I7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

EP3C10E144I7 is a part number that appears to refer to an Altera (now Intel) Cyclone III field-programmable gate array (FPGA) device. The "EP3C10E144I7" designation indicates specific characteristics of this FPGA, as follows:

Features

"EP3C" refers to the Cyclone III series of FPGAs, which are programmable logic devices designed for digital logic applications.

"10" refers to the specific family member within the Cyclone III series, with different numbers indicating different levels of capacity and performance.

"E144" refers to the package type and pin count. "E144" indicates a 144-pin FineLine BGA (Ball Grid Array) package, which is a type of integrated circuit package with solder balls on the bottom for surface mounting onto a printed circuit board.

"I7" refers to the speed grade or performance rating of the FPGA. "I7" indicates a commercial-grade (0 to 85 degrees Celsius) device.

Application

Logic capacity: It has a capacity of up to 10,000 logic elements (LEs), which are the basic building blocks of programmable logic.

Embedded memory: It may include up to 414 kilobits (Kb) of embedded memory for storing data within the FPGA.

Digital signal processing (DSP) blocks: It may include up to 54 embedded DSP blocks for implementing high-performance digital signal processing functions.

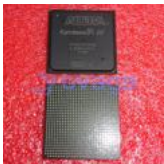
I/O interfaces: It may have various I/O interfaces such as GPIO (General Purpose Input/Output) pins, LVDS (Low Voltage Differential Signaling) channels, and other interfaces for communication with external devices.

Clocking resources: It may include phase-locked loops (PLLs) and clock multiplexers for generating and distributing clock signals within the FPGA.





Related Products



[EP4CE55F29C8N](#)

Altera Corporation (Intel)
FBGA-780



[EPM240M100C5N](#)

Altera Corporation (Intel)
BGA-100



[EPM1270T144A5N](#)

Altera Corporation (Intel)
TQFP-144



[EPM570F256C5N](#)

Altera Corporation (Intel)
FBGA-256



[EP2C35F672C8N](#)

Altera Corporation (Intel)
FBGA-672



[EPM7128AETC100-10](#)

Altera Corporation (Intel)
TQFP-100



[EP2C35F484C7N](#)

Altera Corporation (Intel)
FBGA-484



[EP2C35F484I8N](#)

Altera Corporation (Intel)
FBGA-484