EP3C10E144C7N

Data Sheet

CYCLONE III FPGA 10K 144-EQFP

Manufacturers	Altera Corporation (Intel)
Package/Case	QFP-144
Product Type	Programmable Logic ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for EP3C10E144C7N or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

EP3C10E144C7N is an FPGA (Field Programmable Gate Array) device from the Cyclone III family manufactured by Intel (previously Altera). Here are some of its features:

Features

It has a density of 10,080 logic elements (LEs), which can be configured to implement different logic functions, such as counters, state machines, digital signal processing (DSP) blocks, and memory.

It has 144 pins arranged in a fine-pitch ball grid array (BGA) package, which is a common type of package for FPGAs.

It supports various I/O standards, including LVCMOS, LVTTL, PCI, and LVDS, and can operate at a maximum speed of 300 MHz.

It has built-in configuration memory, which can be programmed using the Quartus II software from Intel.

Application

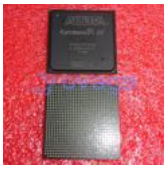
Industrial automation and control: FPGAs are commonly used in industrial applications for signal processing, data acquisition, and control.

Communications: FPGAs can be used in telecom applications for baseband processing, channelization, and modulation/demodulation.

Automotive: FPGAs can be used in automotive applications for driver assistance, infotainment, and safety-critical systems.

Video and image processing: FPGAs can be used in video and image processing applications for real-time filtering, edge detection, and compression.

Related Products



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Altera Corporation (Intel)

FBGA-780

[EPM240M100C5N]

Altera Corporation (Intel)

BGA-100

[EPM1270T144A5N]

Altera Corporation (Intel)

TQFP-144

[EPM570F256C5N]

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FBGA-256

[EP2C35F672C8N]

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FBGA-672

[EPM7128AETC100-10]

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TQFP-100

EP2C35F484C7N

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FBGA-484

EP2C35F484I8N

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FBGA-484