EP1K100QI208-2

FPGA ACEX 1K Family 100K Gates 4992 Cells 250MHz 0.22um Technology 2.5V 208-Pin PQFP

Manufacturer:	Intel Corp
Package/Case:	QFP
Product Type:	Programmable Logic ICs
Lifecycle:	Obsolete

Images are for reference only

Inquiry

General Description

Altera® ACEX 1K devices provide a die-efficient, low-cost architecture by combining look-up table (LUT) architecture with EABs. LUT-based logic provides optimized performance and efficiency for data-path, register intensive, mathematical, or digital signal processing (DSP) designs, while EABs implement RAM, ROM, dual-port RAM, or first-in first-out (FIFO) functions. These elements make ACEX 1K suitable for complex logic functions and memory functions such as digital signal processing, wide data-path manipulation, data transformation and microcontrollers, as required in high-performance communications applications. Based on reconfigurable CMOS SRAM elements, the ACEX 1K architecture incorporates all features necessary to implement common gate array megafunctions, along with a high pin count to enable an effective interface with system components. The advanced process and the low voltage requirement of the 2.5-V core allow ACEX 1K devices to meet the requirements of low-cost, high-volume applications ranging from DSL modems to low-cost switches. The ability to reconfigure ACEX 1K devices enables complete testing prior to shipment and allows the designer to focus on simulation and design verification. ACEX 1K device reconfigurability eliminates inventory management for gate array designs and test vector generation for fault coverage.

Recommended For You

EPM3256AQC208-10N
Intel Corp
QFP208

EPCQ32ASI8N
Intel Corp
SOP8

EPCQ32SI8N
Intel Corp
SOP8

EPCQ64ASI16N
Intel Corp
SOP16

EPCQ16SI8N
Intel Corp
SOP8

EPC2TI32
Intel Corp
QFP

EPM7128STC100-15N
Intel Corp
QFP100

EP1C6Q240I7N
Intel Corp
QFP240

EPCQ128SI16N
Intel Corp
SOP16

EPM7128SLC84-15N

Intel Corp

PLCC

EPC1213PC8

Intel Corp

DIP8

EP1K30TC144-3N

Intel Corp

QFP

EPCS1SI8

Intel Corp

SOP-8

EPC1PI8N

Intel Corp

DIP8

EPC2LI20N

Intel Corp

PLCC