

FPGA - Field Programmable Gate Array FPGA - Stratix V GX 2560 LABs 840 IOs

Manufacturers	Altera Corporation (Intel)
Package/Case	FBGA-1932
Product Type	Programmable Logic ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for 5SGXEA7N2F45I3N or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

5SGXEA7N2F45I3N is a part number for a specific member of the Intel Stratix V FPGA family, which is a high-performance programmable logic device.

Features

2.5 million logic elements (LEs) for implementing complex digital circuits and algorithms.

1,288 embedded memory blocks (MBs) for implementing large on-chip memory structures.

56 full-duplex transceivers capable of data rates up to 28.05 Gbps for high-speed communication.

Support for various high-speed interfaces such as PCI Express, Ethernet, and DDR3/4 SDRAM.

A range of built-in intellectual property (IP) cores for common functions such as memory controllers, DSP blocks, and communication interfaces.

High-performance clock management circuitry for generating and distributing clock signals across the chip.

Application

High-speed communication systems such as routers, switches, and data center networking equipment.

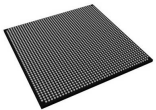
High-performance computing systems for scientific computing, machine learning, and signal processing.

Military and aerospace systems for radar, imaging, and communication.

Industrial control systems for factory automation, robotics, and motor control.

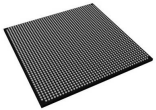


Related Products



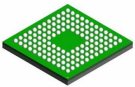
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Altera Corporation (Intel)
FBGA-1932



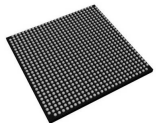
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FBGA-1932



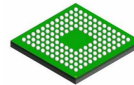
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Altera Corporation (Intel)
FC-HFBGA-1517



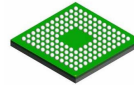
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Altera Corporation (Intel)
BGA-780



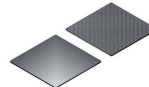
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Altera Corporation (Intel)
FBGA-1517



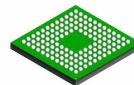
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FBGA-1517



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Altera Corporation (Intel)
FBGA-1152



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FBGA-1517