

300,000 SYSTEM GATE 1.8V FPGA - NOT RECOMMENDED for NEW DESIGN

Manufacturers	<a href="#">AMD Xilinx, Inc</a>
Package/Case	BGA-456
Product Type	Programmable Logic ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for XC2S300E-7FGG456C or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

XC2S300E-7FGG456C is a Field-Programmable Gate Array (FPGA) manufactured by Xilinx, which is a semiconductor company specializing in programmable logic devices.

## Features

XC2S300E-7FGG456C has a density of 300,000 system gates (equivalent to approximately 6,000 logic cells) and 6,192 logic cells.

It has 120 I/O pins with up to 622 Mbps data rates, making it suitable for high-speed applications.

The FPGA operates at a maximum frequency of 250 MHz.

It has 2.5 Mb of fast block RAM and 216 Kb of distributed RAM.

It supports various I/O standards, including LVCMOS, LVTTTL, HSTL, SSTL, LVDS, and PCI.

## Application

High-speed communication systems

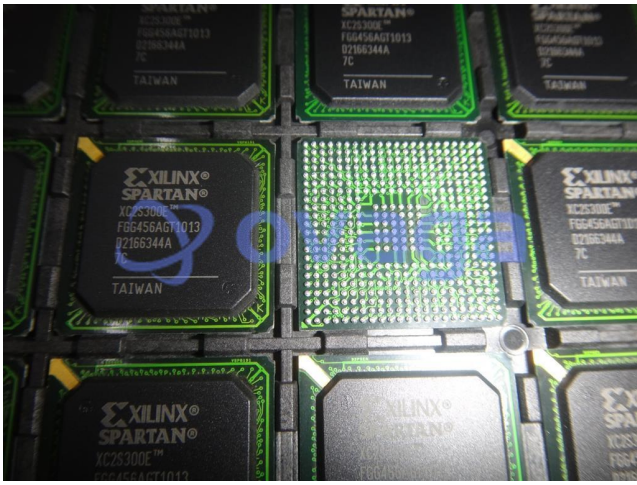
Industrial automation and control systems

Digital signal processing (DSP) applications

Military and aerospace systems

Medical imaging and instrumentation

Video and image processing



## Related Products



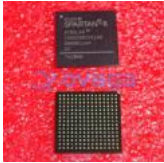
### [XC18V01S020C](#)

AMD Xilinx, Inc  
SOP-20



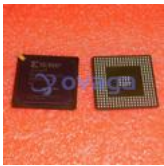
### [XCF04SV0G20C](#)

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TSSOP20



### [XC6SLX4-2CSG225C](#)

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BGA-225



### [XCV50-6BG256C](#)

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BGA256



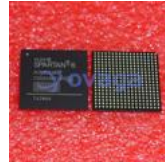
### [XCF08PV0G48C](#)

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TSOP-48



### [XC6SLX25-3FTG256C](#)

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BGA-256



### [XC6SLX16-3CSG324C](#)

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BGA-324



### [XCF32PVO48C](#)

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TSOP48