

CPLD CoolRunner -II Family 3K Gates 128 Macro Cells 152MHz 0.18um (CMOS)
Technology 1.8V

| | |
|---------------|---------------------------------|
| Manufacturers | AMD Xilinx, Inc |
| Package/Case | 100-TQFP |
| Product Type | Programmable Logic ICs |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for XC2C128-7VQG100I or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

XC2C128-7VQG100I is a specific model of the Xilinx CoolRunner-II CPLD (Complex Programmable Logic Device) family. It is a CPLD that has 128 macrocells, operates with a maximum of 7.5ns pin-to-pin delay (7V speed grade), and comes in a VQG100 package, which has 100 pins in a quad flat no-lead (QFN) configuration. The "I" at the end of the part number indicates the industrial temperature range, which typically covers a temperature range of -40°C to 100°C.

Features

128 macrocells: These are programmable logic cells that can be configured to perform various functions, such as combinational logic, registered logic, and state machine logic.

600 usable gates: These are equivalent gates that can be utilized for implementing digital logic circuits.

64 user I/O pins: These are general-purpose input/output pins that can be used to interface with external devices or other digital logic circuits.

3.3V operation: The XC2C128-7VQG100I operates with a supply voltage of 3.3V, which is a common voltage level used in many digital systems.

In-system programmable (ISP): The CPLD can be programmed while it is in the system, allowing for updates and reconfiguration without the need for physical reprogramming.

Application

Embedded control systems: The CPLD can be used for implementing various control functions, such as interfacing with sensors, driving actuators, and implementing custom logic for system control.

Communications systems: The XC2C128-7VQG100I can be used for implementing digital signal processing (DSP) functions, protocol converters, and other communication-related functions.

Industrial automation: The CPLD can be used in industrial control systems for implementing logic functions, interfacing with sensors and actuators, and controlling other subsystems.

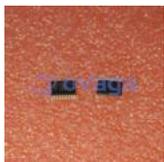


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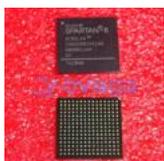
[XC18V01S020C](#)

AMD Xilinx, Inc
SOP-20



[XCF04SV0G20C](#)

AMD Xilinx, Inc
TSSOP20



[XC6SLX4-2CSG225C](#)

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BGA-225



[XCF08PV0G48C](#)

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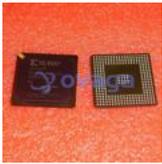
[XC6SLX25-3FTG256C](#)

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BGA-256



[XC6SLX16-3CSG324C](#)

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