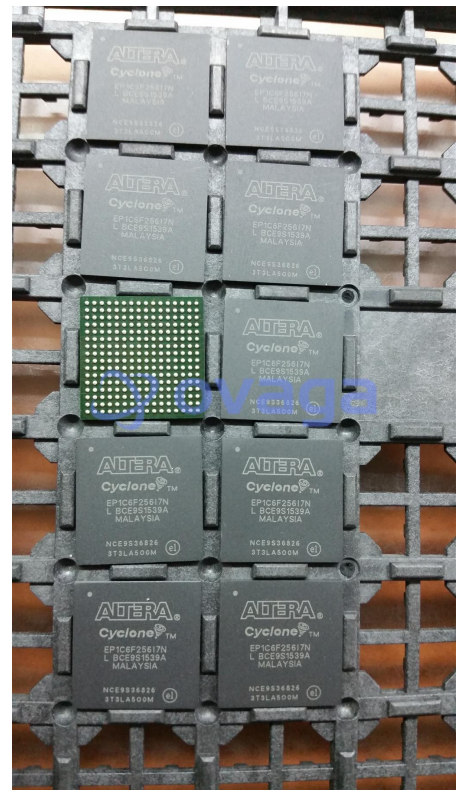


FPGA Cyclone Family 5980 Cells 320.1MHz 130nm Technology 1.5V

Manufacturers	<u>Altera Corporation (Intel)</u>
Package/Case	FBGA-256
Product Type	Programmable Logic ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for EP1C6F256I7N or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

EP1C6F256I7N appears to be a part number referring to an integrated circuit (IC) from the EP1C series, which is a family of programmable logic devices (PLDs) manufactured by Intel (formerly Altera). The specific part number, EP1C6F256I7N, likely indicates certain features and characteristics of the PLD.

Features

FPGA (Field-Programmable Gate Array) architecture: These are programmable logic devices that allow users to configure the digital circuits according to their specific requirements.

6,000 Logic Elements (LEs): These are basic building blocks of the FPGA, each containing look-up tables (LUTs), flip-flops, and other components.

256 I/O (Input/Output) pins: These are used for interfacing with external devices or circuits.

17 speed grade: This may indicate the operating speed of the PLD, with 17 likely being one of the faster speed grades.

Application

Digital circuit design: These PLDs can be used to implement a wide range of digital logic functions, such as combinational and sequential circuits, state machines, and digital signal processing (DSP) functions.

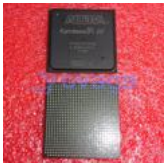
Prototyping and development: PLDs are often used in prototyping and development of digital systems, allowing designers to test and iterate their designs before manufacturing custom ASICs (Application-Specific Integrated Circuits).

Embedded systems: PLDs can be used in embedded systems for functions such as interfacing with external peripherals, implementing custom communication protocols, or controlling other digital logic circuits.





Related Products



[EP4CE55F29C8N](#)

Altera Corporation (Intel)
FBGA-780



[EPM240M100C5N](#)

Altera Corporation (Intel)
BGA-100



[EPM1270T144A5N](#)

Altera Corporation (Intel)
TQFP-144



[EPM570F256C5N](#)

Altera Corporation (Intel)
FBGA-256



[EP2C35F672C8N](#)

Altera Corporation (Intel)
FBGA-672



[EPM7128AETC100-10](#)

Altera Corporation (Intel)
TQFP-100



[EP2C35F484C7N](#)

Altera Corporation (Intel)
FBGA-484



[EP2C35F484I8N](#)

Altera Corporation (Intel)
FBGA-484