


## FPGA IGLOO Family 250K Gates 130nm Technology 1.2V/1.5V 196-Pin CSP Box

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	BGA
<b>Product Type:</b>	Programmable Logic ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The IGLOO family of flash FPGAs, based on a 130-nm flash process, offers the lowest power FPGA, a single-chip solution, small footprint packages, reprogrammability, and an abundance of advanced features.

The Flash\*Freeze technology used in IGLOO devices enables entering and exiting an ultra-low power mode that consumes as little as 5  $\mu$ W while retaining SRAM and register data. Flash\*Freeze technology simplifies power management through I/O and clock management with rapid recovery to operation mode.

The Low Power Active capability (static idle) allows for ultra-low power consumption (from 12  $\mu$ W) while the IGLOO device is completely functional in the system. This allows the IGLOO device to control system power management based on external inputs (e.g., scanning for keyboard stimulus) while consuming minimal power.

Nonvolatile flash technology gives IGLOO devices the advantage of being a secure, low power, singlechip solution that is Instant On. IGLOO is reprogrammable and offers time-to-market benefits at an ASIClevel unit cost. These features enable designers to create high-density systems using existing ASIC or FPGA design flows and tools.

### Key Features

Low Power

High Capacity

Reprogrammable Flash Technology

In-System Programming (ISP) and Security

High-Performance Routing Hierarchy

### Recommended For You

#### AGLP030V2-VQG128

Microchip Technology, Inc

TQFP128

#### AGL1000V2-FGG256

Microchip Technology, Inc

256-LBGA

#### AGL125V2-VQ100I

Microchip Technology, Inc

TQFP-100

**AGL030V5-CSG81I**

Microchip Technology, Inc  
81-WFBGA

**AGLN010V2-UCG36I**

Microchip Technology, Inc  
36-WFBGACSPBGA

**AGLP125V5-CSG289**

Microchip Technology, Inc  
BGA

**AGL250V2-CS196I**

Microchip Technology, Inc  
BGA

**AGL600V5-FGG256I**

Microchip Technology, Inc  
BGA

**A3P250-PQ208**

Microchip Technology, Inc  
QFP

**A3P250-FGG256I**

Microchip Technology, Inc  
BGA256

**APA150-BG456I**

Microchip Technology, Inc  
BGA

**ATF22LV10C-10XU**

Microchip Technology, Inc  
TSSOP24

**A42MX16-FPLG84**

Microchip Technology, Inc  
PLCC

**APA600-BG456I**

Microchip Technology, Inc  
BGA-456

**A3P1000-1PQG208M**

Microchip Technology, Inc  
QFP