


**FPGA ProASIC®3 nano Family 125K Gates 130nm Technology  
1.5V 100-Pin VQFP Tray**

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	QFP
<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

ProASIC3, the third-generation family of Microsemi flash FPGAs, offers performance, density, and features beyond those of the ProASICPLUS® family. Nonvolatile flash technology gives ProASIC3 nano devices the advantage of being a secure, low power, single-chip solution that is Instant On. ProASIC3 nano devices are reprogrammable and offer time-to-market benefits at an ASIC-level unit cost. These features enable designers to create high-density systems using existing ASIC or FPGA design flows and tools.

ProASIC3 nano devices offer 1 kbit of on-chip, reprogrammable, nonvolatile FlashROM storage as well as clock conditioning circuitry based on an integrated phase-locked loop (PLL). A3PN030 and smaller devices do not have PLL or RAM support. ProASIC3 nano devices have up to 250,000 system gates, supported with up to 36 kbits of true dual-port SRAM and up to 71 user I/Os.

ProASIC3 nano devices increase the breadth of the ProASIC3 product line by adding new features and packages for greater customer value in high volume consumer, portable, and battery-backed markets. Added features include smaller footprint packages designed with two-layer PCBs in mind, low power, hot-swap capability, and Schmitt trigger for greater flexibility in low-cost and power-sensitive applications

### Key Features

- Wide Range of Features
- Reprogrammable Flash Technology
- High Performance
- Low Power
- High-Performance Routing Hierarchy

### Recommended For You

**A3P250-PQ208**

Microchip Technology, Inc  
QFP

**A3P250-FGG256I**

Microchip Technology, Inc  
BGA256

**A3P1000-1PQG208M**

Microchip Technology, Inc  
QFP

**A3P1000-PQG208**

Microchip Technology, Inc  
QFP

**A3P1000-FGG256I**

Microchip Technology, Inc  
FBGA256

**A3P1000-FG256I**

Microchip Technology, Inc  
256-LBGA

**A3P1000-FGG484I**

Microchip Technology, Inc  
FBGA484

**A3P250-VQG100**

Microchip Technology, Inc  
QFP

**A3P250-VQG100I**

Microchip Technology, Inc  
VQFP

**A3P250-FGG144I**

Microchip Technology, Inc  
BGA

**APA300-BG456M**

Microchip Technology, Inc  
BGA

**A3P1000-FG144**

Microchip Technology, Inc  
BGA

**A3P1000-1FG484I**

Microchip Technology, Inc  
484-BGA

**A3P1000-1FGG144I**

Microchip Technology, Inc  
BGA

**A3PN060-VQG100**

Microchip Technology, Inc  
QFP100