


**FPGA ProASIC®3 Family 30K Gates 231MHz 130nm Technology
1.5V 100-Pin VQFP Tray**

Manufacturer:	Microchip Technology, Inc
Package/Case:	VQFP-100
Product Type:	Programmable Logic ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	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 devices the advantage of being a secure, low power, single-chip solution that is Instant On. ProASIC3 is reprogrammable and offers 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 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). The A3P015 and A3P030 devices have no PLL or RAM support.

ProASIC3 devices have up to 1 million system gates, supported with up to 144 kbits of true dual-port SRAM and up to 300 user I/Os. ProASIC3 devices support the ARM Cortex-M1 processor. The ARM-enabled devices have Microsemi ordering numbers that begin with M1A3P (Cortex-M1) and do not support AES decryption.

Key Features

High Capacity

Reprogrammable Flash Technology

High Performance

In-System Programming (ISP) and Security

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