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ProASIC^{PLUS} Starter Kit

THE ALL-INCLUSIVE, LOW COST EVALUATION KIT

FOR THE ProASIC^{PLUS} FAMILY



The ProASIC^{PLUS} starter kit is a complete solution that enables quick evaluation of the Actel ProASIC^{PLUS} device family and design prototyping.

ProASIC^{PLUS} devices combine the advantages of ASIC devices with the benefits of programmable devices through nonvolatile Flash technology, enabling engineers to create high-density systems using existing ASIC or FPGA design flows and tools.

Based on cost-effective 0.22 μm Flash technology, ProASIC^{PLUS} offers a unique combination of features and benefits that give designers the best of both worlds. Like an ASIC, nonvolatile ProASIC^{PLUS} is live at power-up, offers a wide range of densities, and has very low power consumption. ProASIC^{PLUS} also adds reprogrammability and enhanced security to protect sensitive Intellectual Property. Its fine-grained architecture enables designers to leverage existing ASIC or FPGA design flows and tools. ProASIC^{PLUS} is the first high-density, reprogrammable product that combines the capabilities of ASICs with the flexibility of FPGAs.

ProASIC^{PLUS}

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All-Inclusive and Low Cost

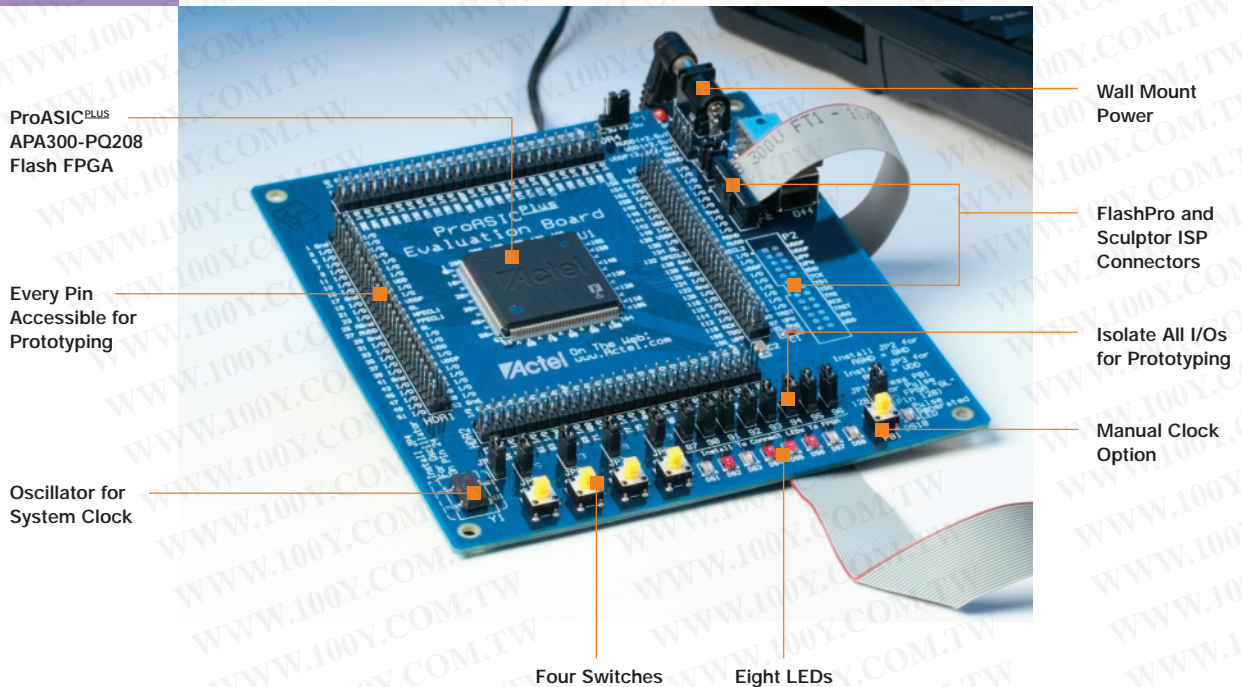
The low cost ProASIC^{PLUS} Starter Kit contains everything you need to start using the advanced features of the Actel ProASIC^{PLUS} family.

The ProASIC^{PLUS} Starter Kit includes the following:

- Evaluation Board with an APA300 ProASIC^{PLUS} Device
- Actel Libero[®] Integrated Design Environment (IDE) Gold
- FlashPro Lite and Programming Cable
- Power Supply
- User's Guide Including PCB Schematics
- Sample Design

ProASIC^{PLUS} Evaluation Board

The ProASIC^{PLUS} evaluation board has on-board voltage regulation, enabling you to set the I/O voltages (V_{DDP}) to either 2.5 V or 3.3 V. You can generate the system clock using the on-board oscillator and ProASIC^{PLUS} PLLs. Eight LEDs and four switches provide simple inputs and outputs to the system. Prototyping headers connect to all the ProASIC^{PLUS} device I/Os, enabling you to easily add components to the evaluation board. Finally, the board is equipped with programming headers to support ISP programming using FlashPro, FlashPro Lite, or Silicon Sculptor II.



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FlashPro Lite

FlashPro Lite is a portable, low cost, in-system programmer for Actel ProASIC^{PLUS} devices. This programmer draws power from the target board rather than an external power brick to create a very compact solution. The FlashPro Lite ultra small form factor, low cost, and easy-to-use software makes in-system programming of ProASIC^{PLUS} devices a simple task.

Libero IDE Gold

Actel Libero IDE is the most comprehensive and powerful FPGA design and development software available. Libero IDE consists of a powerful suite of FPGA development tools providing designers with an efficient and comprehensive start to finish methodology, from schematic/HDL entry, place-and-route, and programming. Libero IDE Gold has a design capacity of up to 300 k systems gates or the smallest member of a device family. Aside from the Actel Designer software FPGA tools from industry leaders Synplicity[®] and SynapticCAD[™], Libero IDE Gold also includes Mentor Graphics[®] ModelSim[®] to give you a complete design solution.

All of these tools are combined into a single package, giving you all the tools you need to evaluate the advanced features of ProASIC^{PLUS} devices or to start prototyping your own Flash designs with the ProASIC^{PLUS} APA300-based Starter Kit.



Programming Cable



FlashPro Lite uses a 26-strand dual row 50-mil cable from Samtec Inc. This cable is the same type used in the ISP module on the Silicon Sculptor. It is small enough to keep the entire programmer portable and can be easily replaced.

ProASIC^{PLUS}

User's Guide

For those who have not used Actel ProASIC^{PLUS} devices or Actel Libero IDE, the ProASIC^{PLUS} Starter Kit contains a comprehensive user's guide that takes you through the entire design process step by step. The tutorial uses a simple design as an example, and takes you from creating a new project all the way to programming the device, typically requiring about an hour.

Board Design Files

The ProASIC^{PLUS} evaluation board design files and schematic are also included in the kit. The schematic can be used as a guideline for your own board, or easily modified into your own design.

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For more information regarding the **Actel ProASIC^{PLUS} Starter Kit**, please contact your local **Actel** sales representative.



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