Protect your Design. Secure your set-top box. Secure box designs need to combine low manufacturing cost at very high volumes with reliability and security in order to create a successful product. With their leading high-volume pricing and the protection they provide against design theft and piracy, Actel FPAGs are the obvious choice to see in set-top box designs. You can use them to interface functions between NTSC and PAL, synchronize and decode video, perform control functions, and connect external interfaces such as 1394 and IEEE 1394. Our FPAGs are non-volatile (meaning they can be programmed with one-time. Other FPAGs in an SRAM-based, requiring that the memory file containing the design information be loaded into the FPGA every time the system is powered-up. It is very easy to integrate correction algorithms and power control circuits. Owners of digital cameras who feel themselves personally vulnerable against design theft will never want their own designs to be subject to the same attack. To satisfy the need for fast power-consuming Actel has designed a family of FPAGs with unusually low standby power levels of 0.15W. In this micro, on the average, the camera would be about the time of the time, Actel FPAGs consume less than a tenth of the power of an average CPLD, and less than half the power of the closest competing "low power" CPLD. Where conservation of battery power is critical for systems needing very high levels of reliability, Actel FPAGs far surpass other programmable logic. Actel FPAGs have been used to build interfaces from the CPU to the LCD controllers, to the keypad, and finally to the image sensor, offering the designers the freedom to create the highest quality digital cameras to market demands.

Secure your Set-top box
Protect your Design:

- Low power consumption for extended battery life
- Small footprint for gọn preformance
- Fast time-to-market
- Low cost at high volume
- High performance

Actel FPAGs in e-Appliances

In the rapidly evolving e-Appliance market segment, designers often produce high-volume consumer electronics such as digital camera, personal digital players, and set-top boxes are in the difficult position of trying to find products that enable them to reduce board space, power consumption, and cost while maintaining maximum performance. Actel has the winning solution. Actel’s e-Appliance FPAGs offer significant reductions in design costs, board area, and power consumption while speeding time-to-market for performance-sensitive applications... all this in a single chip.
## Design Services and Tools

### Design Services
- **The One Stop Design Solution**
  - With a one-year warranty of providing hardware and software services.
  - Actel's Product Design Services group offers an integrated development support at all stages of project development.
  - Extensive knowledge of FPGA design and prototyping services are delivered in time sensitive budgets and to the customers’ specifications.

### Development Software
- The DeskTop Series brings together the best in silicon, software, and design tools to create a complete and integrated design environment.
- DeskTop is an integrated development environment, including integrated capture, editing, and design tools for design less than 50K gates.
- DeskTop increases the design simulation limit to 40K gates, with unlimited possibilities, allowing designers to move up to their skills and design requirements to increase.
- DeskTop offers which includes simulation up to 40K gates, place-and-route tools, ideal for ASIC designers.

### Design Tools and Services
- **Actel FPGA in a Set Top Box Application**
  - Actel CorePCI is an integrated develop-ment environment, including integrated capture, editing, and design tools for design less than 50K gates.
- DeskTop offers which includes simulation up to 40K gates, place-and-route tools, ideal for ASIC designers.
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### Real-Time Domain Verification
- Analog Devices contains internal plug-in security that provides built-in security to every module in a design, enabling SRAM functionality and protection against data and remote access.
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### Programming
- Actel offers many programming options, including Silicon Sculptor single-mode and multitasking device programming software that support all Actel devices.
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### Actel FPGAs and CorePCI
- Actel’s two top FPGA families, the core FPGAs and CorePCI, are the most cost-effective and flexible solutions in the industry.
- Actel CorePCI is available as a portable, soft RTL development point tool for PCs and Workstations that includes Actel’s CorePCI development software.
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