

SBC Families

Single Board Computer Families for Technology Insertion

SBC Family Offerings

Proactive approach to long term program support through Technology Insertion

- Pin-compatible designs across multiple product generations
- Common Hardware architectures
- Common Software interfaces
- Cost effective system upgrades
- Protection of software investment

Support for Whole Program Life COTS

Abaco's Single Board Computer families have an established track record of offering form, fit, and function compatible multi-generation roadmaps which offer customers the option of system upgrades with the minimum integration effort.

Each family is defined around a form factor and processor architecture and has defined hardware and software interfaces which are maintained across multiple product generations. This enables system integrators to manage long-term programs in a proactive manner by employing a Technology Insertion strategy with period updates of both hardware and software.

SW Continuity

Board Support Packages and Enhanced Support Packages buffer the user from the detailed hardware architecture and are delivered under a Maintenance Agreement, which delivers proactive updates (e.g. for OS changes), with a single agreement covering code for all family members. Common API's are maintained throughout, minimizing software impact if the user chooses to update the hardware.

HW Continuity

Pin-outs are maintained across multiple generations so that new, higher performance hardware solutions can be slotted straight into existing systems. New features are often introduced, but not at the expense of legacy options, giving the user the option of full compatibility or increased functionality.

FEATURES:

- **VPXtreme 3**
 - 3U VPX : Power Architecture SBC
- **VPXtreme 6**
 - 6U VPX : Power Architecture SBC
- **VPXcel 3**
 - 3U VPX : Intel Architecture SBC
- **VPXcel 6**
 - 6U VPX : Intel Architecture SBC
- **PowerPact 6**
 - 6U CPCI : Power Architecture SBC
- **InXcel 6**
 - 6U CPCI : Intel Architecture SBC
- **PowerXtreme**
 - VME : Power Architecture SBC
- **InXtreme**
 - VME : Intel Architecture SBC

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Whole Program Life COTS

Whole Program Life COTS™ delivers real, tangible benefits to our customers:

- Minimizes risk by using proven technology.
- Delivers leading-edge performance throughout the life of a program by implementing a Technology Insertion strategy, minimizing system requalification and integration following a system upgrade.
- Simplifies technology insertion. In many cases, the impact on software of the insertion of new product generations is minimized through the use of our Board Support Packages. These provide a stable software interface between the application and the underlying hardware, reducing revisions to the application software.
- Anticipates future developments based on accurate technology road maps. Close relationships with key technology suppliers; allow us to ensure that successive generations of products are backwards compatible.
- Dedicates expert resources to the job of fighting system obsolescence. Our Product Lifecycle Management team enjoys dedicated engineering resources at a level normally available only to teams developing new products.

Long-Term Support – While the Whole Program Life COTS design philosophy maintains form, fit, and function; it is also true that some applications will require the supply of identical products far in excess of the market life of the components. Close relationships with vendors ensure that we are fully informed about component availability.

In addition to being able to make ‘last time buys’, customers can also make a ‘one off’ purchase of all the components that will be required throughout the entire life of a program. We also offer a pioneering System Health Check service as a proactive means of managing risk associated with component obsolescence.

Contact your local regional sales manager for more details on our full Product Lifecycle Management (PLM) services.

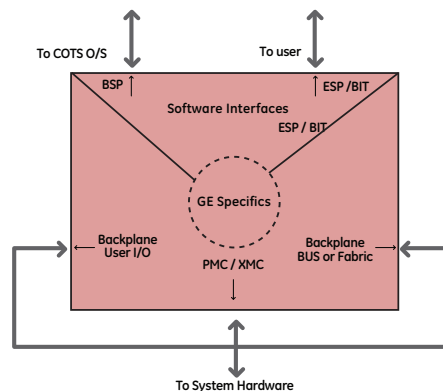


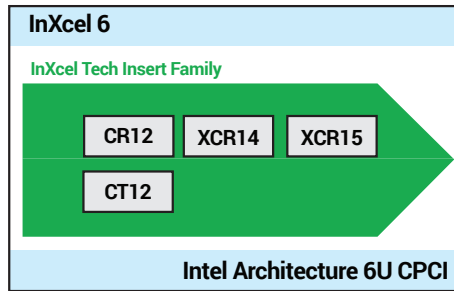
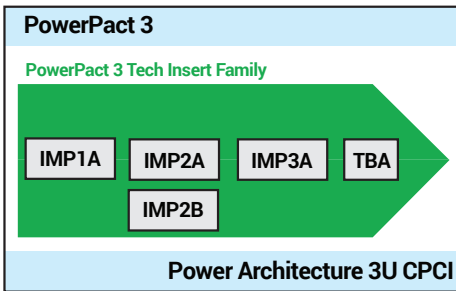
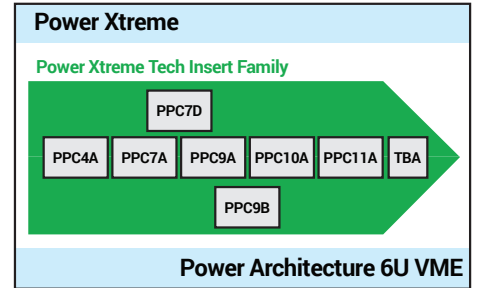
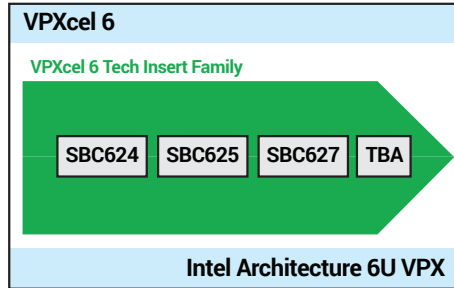
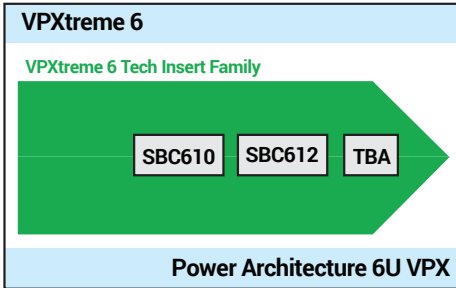
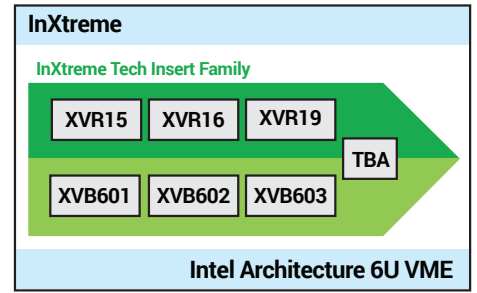
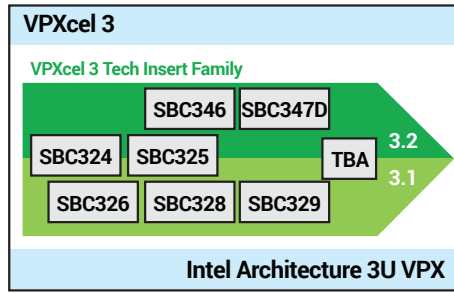
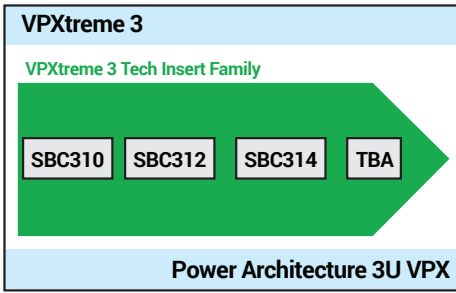
Figure 1 As an example, the PowerXtreme family was first defined around the VME form factor and Power Architecture processors over a decade ago.

The latest product in this family, PPC11A, still maintains footprint commonality with the PPC4A which was introduced back in 1999 and is five generation older.

Today, members of the PowerXtreme family serve in a range of applications spanning from commercial, to industrial, to defense and aerospace.



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Note Some product families have evolved into two linked roadmaps, where full pin compatibility is not fully maintained between them. However these two branches have significant HW and SW commonality (e.g. VPXtreme3.1 and VPXExtreme3.2 have many common pins and common software interfaces).

WE INNOVATE. WE DELIVER. YOU SUCCEED.

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