The BA2x-AHB-PP provides the essential IP cores and infrastructure software needed for systems using processors in the BA2x family. Ready for software development out of the box but also easy to customize and extend, it serves as a basic platform for the rapid development of a variety of system-on-chip (SoC) applications.

The platform is well suited to a variety of BA2x-based SoC designs. It includes the multi-master and arbitration features of the high-performance AHB bus, and a bridge to the slower APB peripherals bus. The architecture makes it straightforward to add additional IP cores or custom logic to either bus. The platform includes synthesizable HDL cores for the AHB and APB buses, plus various commonly used peripherals.

**Applications**

The platform is suitable for small microcontrollers and mixed-signal controllers for a variety of applications, including factory automation, automotive systems, hand-held devices, motor controls, and intelligent toys.

**Options and Bundles**

The BA2x-AHB-PP modules are offered pre-integrated with the BA22 processor individually, in any combination, or in predefined bundles (see details in the sidebar).

**Block Diagram**

This shows all the available bus and peripheral cores.