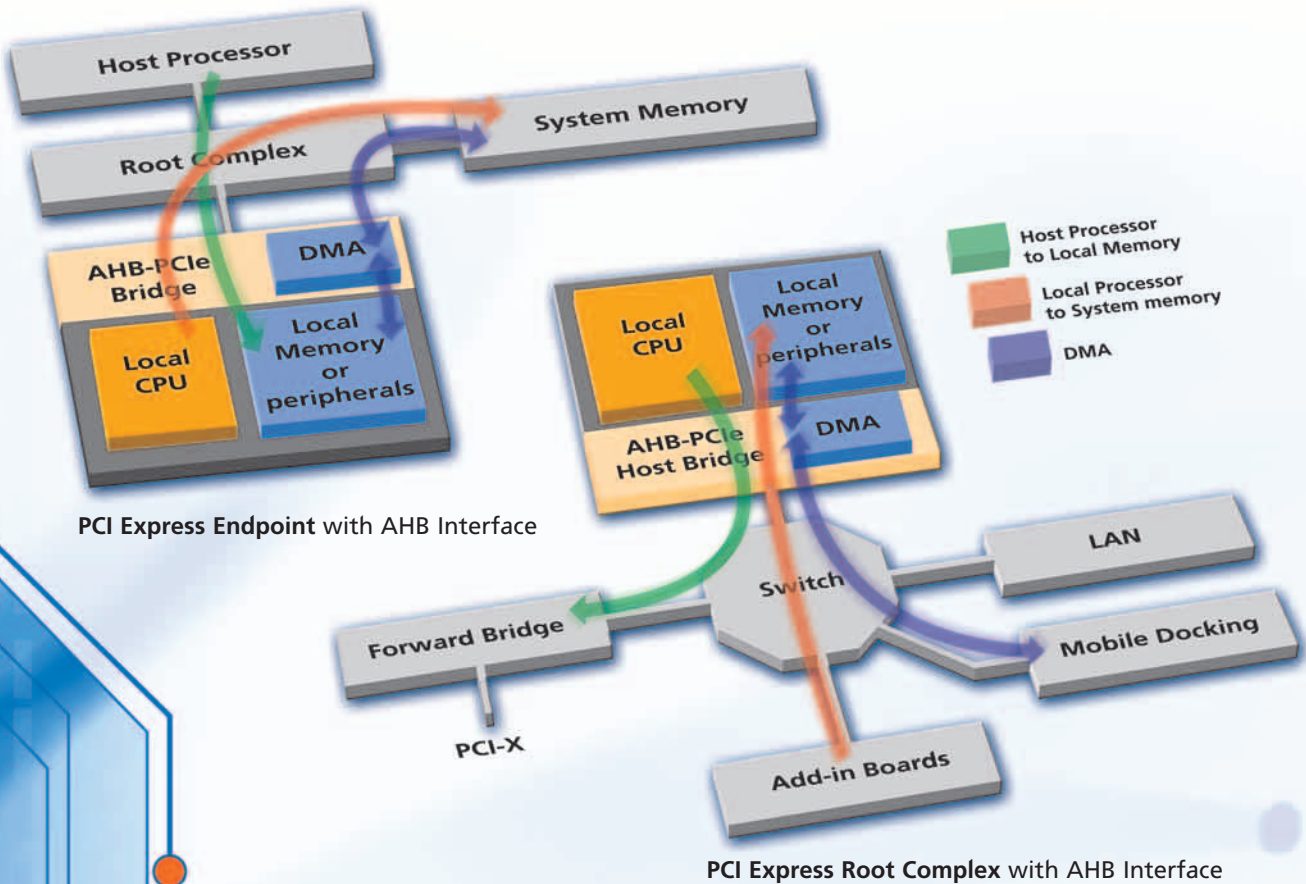


# AHB-PCI EXPRESS BRIDGE IP CORE



The PCI Express Solution for AHB-based processors



## APPLICATIONS

- Networks
- Computing
- Storage, Servers
- Wireless
- Aerospace
- Automotive
- Consumer electronics
- Vision & Imaging
- Industrial
- Scientific / Medical
- Test & Measurement
- Switch fabric

## BENEFITS

- Small foot print, low power
- Supports Shared Silicon mode (Endpoint / RootPort)
- Supports ExpressCard

## FREE EVALUATION

- License & Eval versions use same RTL
- Includes BFM & verification IP
- Trial period includes full technical support



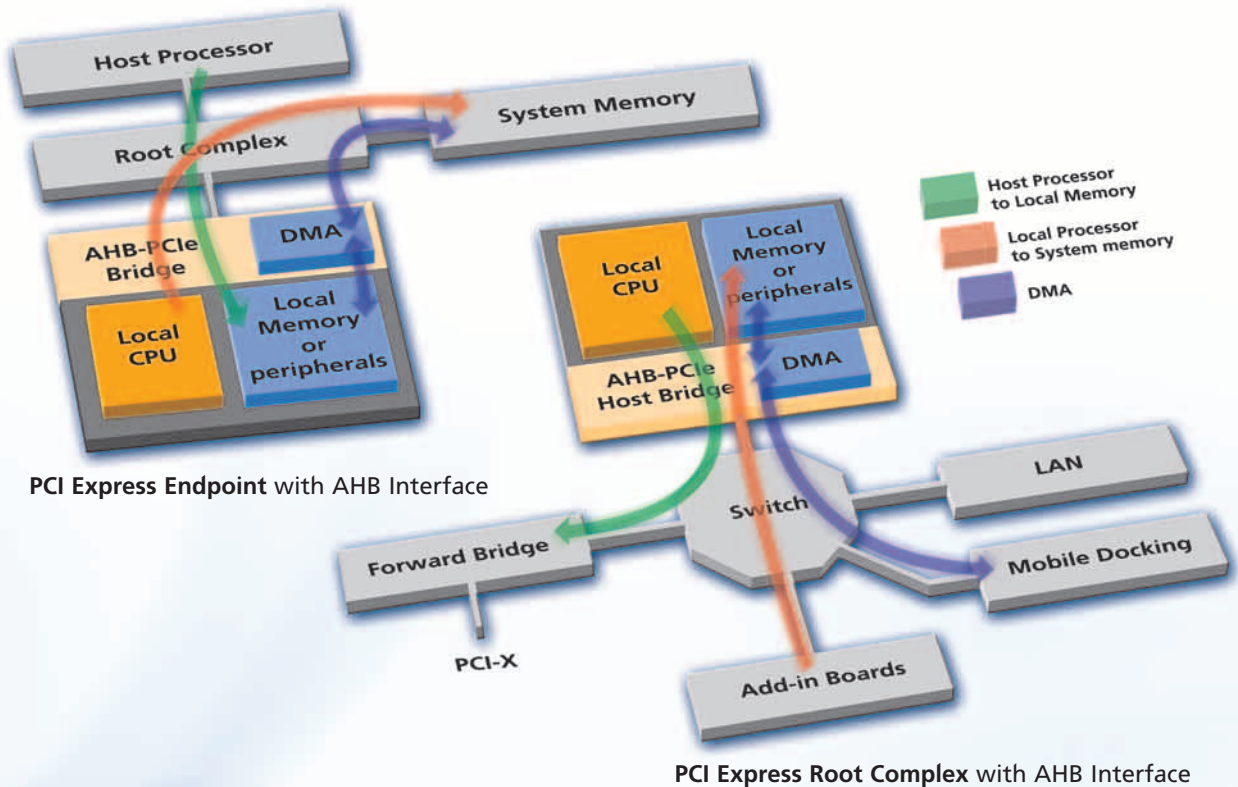
**USA**  
(408) 273-4528  
2570 North First St.  
San Jose, CA 95131

**ASIA / EUROPE**  
+33 442 393 600  
Europarc Pichauray A2  
13856 Aix-en-Provence, France



WWW.PLDA.COM

# AHB-PCI EXPRESS BRIDGE IP CORE



## FEATURES

- x1 PCI Express Link
- 32-bit AHB master and slave interfaces
- AHB interfaces can run at user-defined frequencies
- Data Transfers
  - DMA can generate Memory I/O transfers of up to 224 data
  - PCI devices can directly transfer data to/from AHB peripherals
  - AHB master devices can directly transfer data to/from PCI devices
  - PCI transfers do not consume CPU time  
DMA requires no CPU time once programmed
  - Concurrent DMA read, DMA write  
AHB/PCIe and PCIe/AHB transfers

## DELIVERABLES

- Code & Design Kit
  - Standard VHDL or Verilog source code for ASIC design and simulation
  - Encrypted VHDL code for FPGAs  
C software design kit
  - Sample PCI plug-and-play code  
IP Wizard: customization assistant
  - Technical support: free IP Core upgrades, reference designs, and a Hotline manned by the PCI Design team

## PLDA'S SUITE OF PCI EXPRESS SOLUTIONS

Since the earliest introduction of the PCIe protocol, PLDA has consistently listed products on the PCI-SIG Integrators list, and today offers a growing suite of top-quality products including IP Controllers, boards, and related goods and services.

- IP Controllers
  - XpressLite: simplifies integration (Endpoint configurations)
  - XpressRich: supports access to all protocol features for Root Port, Endpoint, Switch, Bridge, and Shared Silicon (RP / EP, UP / DW) configurations
- Boards
  - Prototyping Boards:
    - XpressFX (Xilinx-based)
    - XpressGXII & XpressBridge (Altera-based)
  - Design Kits:
    - XpressLite CY2 (Altera Cyclone II)
    - XpressLite SP3 (Xilinx Spartan 3)
  - Evaluation Boards:
    - ARM
    - JMICRON
- Customization Wizard: creates complete parameterized instance of IP Core
- Software Drivers
- Support provided directly by the IP Design team and Free IP Core updates
- Testbench & Simulation models

WWW.PLDA.COM



**USA**  
**(408) 273-4528**  
2570 North First St.  
San Jose, CA 95131

**ASIA / EUROPE**  
**+33 442 393 600**  
Europarc Pichauray A2  
13856 Aix-en-Provence, France