

CHIPit Extension Boards

Part of the Confirma™ ASIC, ASSP, SoC Verification Platform

Overview

The CHIPit Rapid Prototyping Plus Systems are scalable multi-FPGA products using the Synopsys 3D Switching technology. This patented technology offers maximum interconnect flexibility between FPGAs and extension sites and enables an optimized implementation to achieve the highest possible system performance. The open system architecture of CHIPit Systems provides sufficient user I/Os through the extension sites to enable adoption and verification of a design in a real system environment utilizing high-speed interfaces like PCI-Express, DVI or USB 2.0.

FPGA Boards

H_CP-A-A-21, 1 x Virtex-4 SX Board

The PSX FPGA Virtex-4SX Board provides a FPGA Virtex-4 XC4VSX55FPGA, JTAG debug connector, 2 PHX extension board sites with 640 I/Os, etc.



H_CP-A-A-29, Virtex-5LX + SODIMM Board

The PSX FPGA Virtex-5LX SODIMM Board provides a Xilinx Virtex-5 XC5VLX330 FPGA, 4 SODIMM for DDR SDRAM and DDR2 SDRAM, etc.



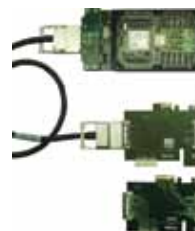
H_CP-A-A-33, Virtex-5LX SelectIO Board

The PSX PSX Virtex-5LX SelectIO Board provides a Xilinx Virtex-5 XC5VLX330 FPGA, 480 general-purpose I/O signals, 16 clock lines, JTAG connector, etc.



H_CP-A-A-30, Virtex-5LXT Board

The PSX FPGA Virtex-5LXT PCI-Express Rocket IO Board (PCI kit) provides Xilinx Virtex-5 XC5VLX110T FPGA, 1/-4-lane PCI Express interface and cable, etc.



Memory Boards

H_H_CP-A-A-1, SDRAM Memory Board

The PHX SDRAM/SRAM Board provides 128 MByte SDRAM (4 devices à 16M-word × 16 bit), 2 MByte SRAM (4 devices à 256 K-word × 16 bit), on 2 PQX boards



H_CP-A-A-14, SSRAM Memory Board

The PHX SSRAM Board provides 16 MByte SSRAM (8 devices à 1 M-word × 18 bits) divided on 2 PQX boards



H_CP-A-A-16, DDR Memory Board

The PHX DDR SDRAM Board provides 256 MByte DDR SDRAM (4 dev. à 32M-word × 16 bit) divided on 2 PQX boards



H_CP-A-A-22, DDR2 Memory Board

The PHX 32-Bit DDR2 SDRAM Board provides 512 MByte DDR2 SDRAM (4 devices à 8 Meg × 16 bit × 8 banks) divided on 2 PQX boards



I/O Boards

H_CP-A-A-20, PCI/USB/Ethernet Board

The PHX Mini PCI Ethernet USB Board provides USB 1.1/USB 2.0 OTG high-speed transceiver, Ethernet transceiver, Mini PCI slot, type III, etc



H_CP-A-A-23, DVI Board

The PHX DVI Board provides DVI 1.0 compatible digital input and output, HDTV resolutions up to 1080p, analogue video input and output, etc.



H_CP-A-A-24, JTAG/RS232 Adapter

The PHX JTAG RS-232 Board provides the footprint (with through holes) for a 30-pin header with a 2.54mm pitch for JTAG connection, two RS232 interfaces, etc.



I/O Boards

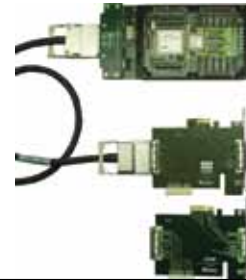
H_CP-A-A-3, LCD Board

The PSX LCD Board provides a 4 inch VGA LCD including a backlight inverter, resolution of 640 × 480 pixels, color depth of 256k for each pixel, etc.



H_CP-A-A-30, Virtex-5LXT Board

The PSX FPGA Virtex-5LXT PCI-Express Rocket IO Board (PCI kit) provides Xilinx Virtex-5 XC5VLX110T FPGA, 1-/4-lane PCI Express interface and cable, etc.



Adapter Boards

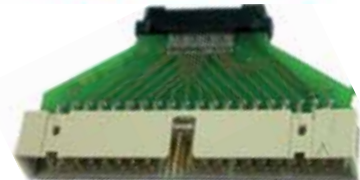
H_CP-A-A-2, Mictor Board

The PHX Mictor Board provides 8 x 38-pin Mictor connectors for easy access with a logic analyzer on 2 PQX boards, each Mictor receptacle is connected exclusively



H_CP-A-A-11, Mictor To WS40 Adapter

The Mictor-to-WS40 Adapter can be plugged in all desired Mictor connectors on the PHX Mictor Board, to bring out user signals to 40-pin SAMTEC connector



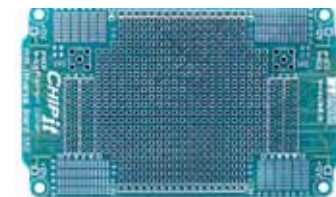
H.CG-A-A-8, Mictor to POD40 Adapter

The Mictor-to-Pod40 Adapter can be plugged in all desired Mictor connectors on the PHX Mictor Board and is dedicated for the usage of an Agilent Logic Analyzer



H_CP-A-A-8, Universal Extension Board

The PHX Universal Board provides user connection areas, power supply areas and a user application area to create customer specific circuits on this board



H_CP-A-A-9, POD40 Adapter Board

The PHX POD40 Board provides 6 x 40-pin SAMTEC connectors on 2 PQX boards and provides the recommended isolation network for Agilent Logic Analyzers



Adapter Boards

H_CP-A-A-12, GPIO Board

The PHX GPIO Board provides 6 x 40-pin surface mount SAMTEC connectors divided on 2 PQX boards and used to bring out user signals from the FPGA



H_CP-A-A-28, ARM Core Tile Board

The PSX ARM Core/Logic Tile Adapter Board provides the usage of different ARM Core Tile and ARM Logic Tile boards in combination with the CHIPit systems



H_CP-A-A-27, EB Adapter

The PSX Bottom EB Adapter Board is dedicated for the CHIPit Iridium Edition and converts the button connectors to the standard PSX expansion board sites



H_CP-A-A-25, HapsTrak Adapter

The PSX HAPS Adapter Board provides the support of up to 2x2 size HAPS extension boards with a granularity of 1x1 size, etc.



Miscellaneous

H_CP-A-A-10, UMRBus Communication Board

The CHIPit UMRBus Communication System hardware consist of a (32-bit 33MHz, 528Mbit/s bandwidth, PCI) LVDS Communication Board and LVDS cable etc.



H_CP-A-A-4, Demo Board

The PHX Demo Board provides 4 x 7-segment (LED1, LED2) displays to represent digits and characters and 4 x push buttons for user inputs



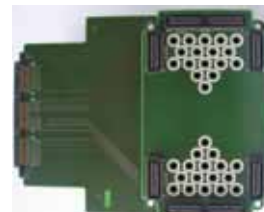
H_CP-A-A-15, Lift-Up Board

The PHX Liftup Board lifts PHX sized expansion boards up by 30 mm and contains 4 x 60-pin connectors and 2 x120-pin Samtec connectors



H_CP-A-A-32, GPIO Extender Board

The PHX GPIO Extender Board provides a PHX form factor and extents GPIO and Mictor connectors to the real panel of the CHIPit Platinum or Iridium system



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