

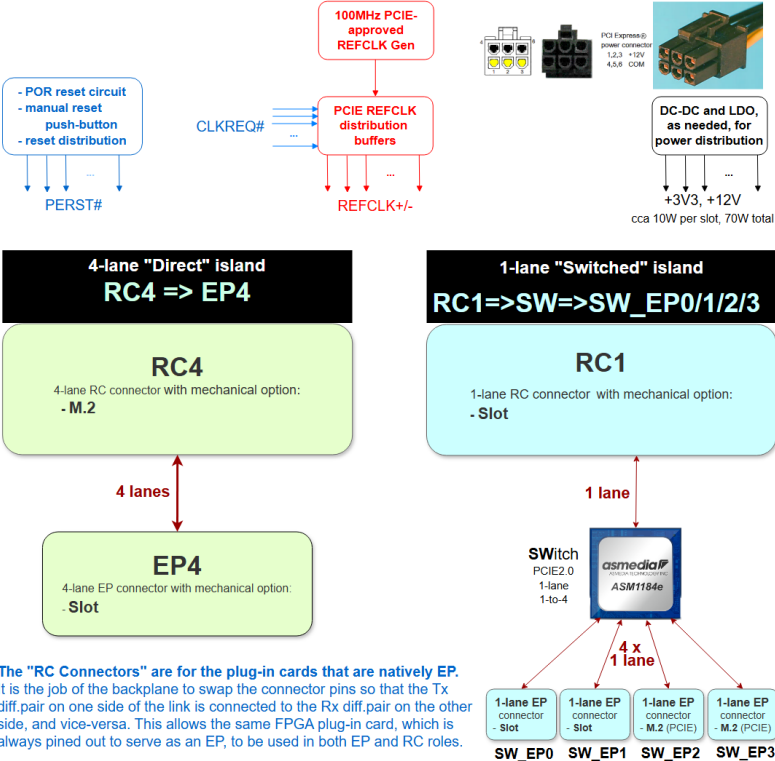
PCIE mini Backplane

Clock generator & Reset fanout
File: clock_gen.kicad_sch

Direct 4-lane PCIe
File: direct_PCIe.kicad_sch

PCIe switch
File: pcie_switch.kicad_sch

Switched 4 x 1-lanes PCIe
File: 4_1-lanes_PCIe.kicad_sch



The "RC Connectors" are for the plug-in cards that are natively EP. It is the job of the backplane to swap the connector pins so that the Tx diff.pair on one side of the link is connected to the Rx diff.pair on the other side, and vice-versa. This allows the same FPGA plug-in card, which is always pinned out to serve as an EP, to be used in both EP and RC roles.



Chili.CHIPS*ba

Sheet: /
File: openpci2-backplane.kicad_sch

Title:

Size: A4

Date: 2025-10-21

KiCad E.D.A. 9.0.5

Rev: r1B1

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