

# Connecting MicroTCA Crates with High Performance Computers via PCIe Uplink .



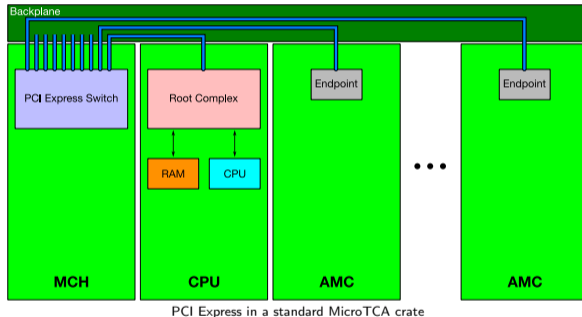
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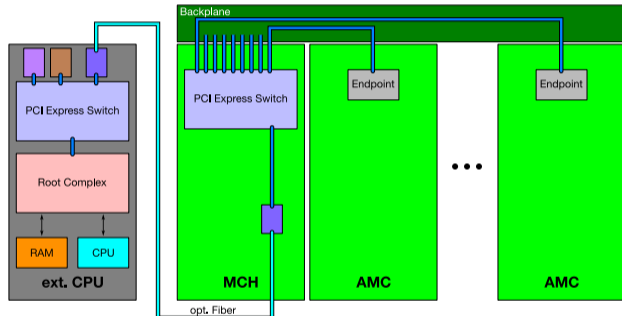
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ARD ST-3 Workshop, GSI, Darmstadt

- PCI Express switch in MCH
- Root Complex on CPU in any of the slots
- Due to MicroTCA.4 standard, power consumption of one slot is limited to 80 W
- This limits the performance of the CPU



- The PCI Express bus can be extended to a computer outside of the crate
- This might be done via optical fiber
- This allows any computer with PCI Express to be used as CPU for a MicroTCA crate



MicroTCA crate with PCI Express bus extended to external CPU

**Want to know about our experience with the extension of PCI Express?  
Find me at my poster! I'm looking forward to your questions!**