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Difference between PowerTrace Serial and

PowerTrace III+Serial Preprocessor
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The following outlines the key distinctions:
1. Data Lane Capabilities:
PowerTrace Serial supports up :
■ 8 lanes/12.5 GT/s
■ 4 lanes/22.5 GT/s with Aurora 2 Preprocessor
 In contrast, the Serial Preprocessor allows for up to 4 lanes, with the speed distributed as follows:
Up to 6.25 GT/s per lane for configurations using 3 lanes.
■ Up to 5.00 GT/s per lane for configurations using 4 lanes.
 Serial interfaces are designed specifically for high-speed data transfers. Minimum transfer rate for each system are as follows:
■ 500 Mbps for the PowerTrace Serial

■ **625 Mbps** for the Serial Preprocessor.

2. Design Considerations for PCIe/HSDP

If a customer plans to transition to a PCIe-based or HSDP project in the future, He cannot use the PowerTrace III with the Serial Preprocessor. Instead, the PowerTrace Serial should be used.