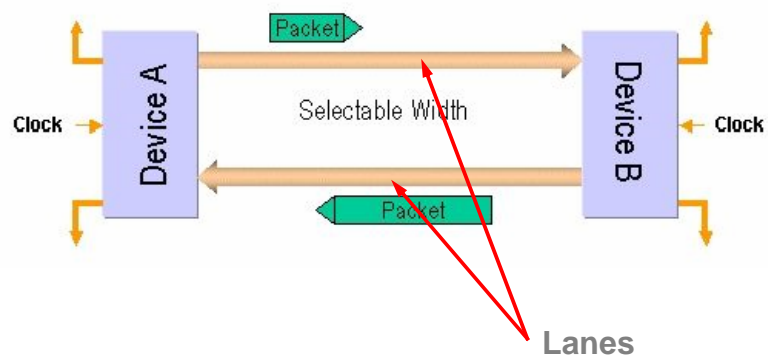


PCI Express

- Im Gegensatz zu IDE eine serieller Bus



PCI - Express

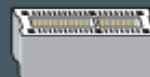
- Taktfrequenz 2,5 GHz dh. theoretisch 2,5 Gbit/s
- Ca. 25% Overhead in den Daten
- D.h. pro Lane ca. 250 MB/s
- Vgl. 32 bit PCI ca. 133MB/s
- Hot Plugging
- Power Budget

PCI Express Example Connectors

x1

BANDWIDTH

Single direction: 2.5 Gbps/200 MBps
Dual Directions: 5 Gbps/400 MBps



x4

BANDWIDTH

Single direction: 10 Gbps/800 MBps
Dual Directions: 20 Gbps/1.6 GBps



x8

BANDWIDTH

Single direction: 20 Gbps/1.6 GBps
Dual Directions: 40 Gbps/3.2 GBps



x16

BANDWIDTH

Single direction: 40 Gbps/3.2 GBps
Dual Directions: 80 Gbps/6.4 GBps



Source: IBM

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