



Integrated Device Technology

PCI Express® Solutions

Comprehensive Portfolio from the Leader in PCI Express Solutions

POWER MANAGEMENT | ANALOG & RF | INTERFACE & CONNECTIVITY | CLOCKS & TIMING | MEMORY & LOGIC | TOUCH & USER INTERFACE | VIDEO & DISPLAY | AUDIO

PCI Express Switches

Industry's most comprehensive family of high-performance, scalable PCIe switching solutions

- Extensive Portfolio
- Up to 64 lane and 24 port devices
- Highly flexible port configurations
- Unprecedented 8 non-transparent bridging (NTB) functions to enable multi-root applications

PCI Express Bridges

High performance PCIe bridging to legacy PCI and PCI-X protocols

- Ultra low power version for consumer applications
- Forward mode buffer optimization
- The only PCI Express bridges with Short Term Caching for significant improvement in PCI Read performance
- Pin compatible with competitive offerings for dual source solution

PCI Express Signal Repeaters and Retimers

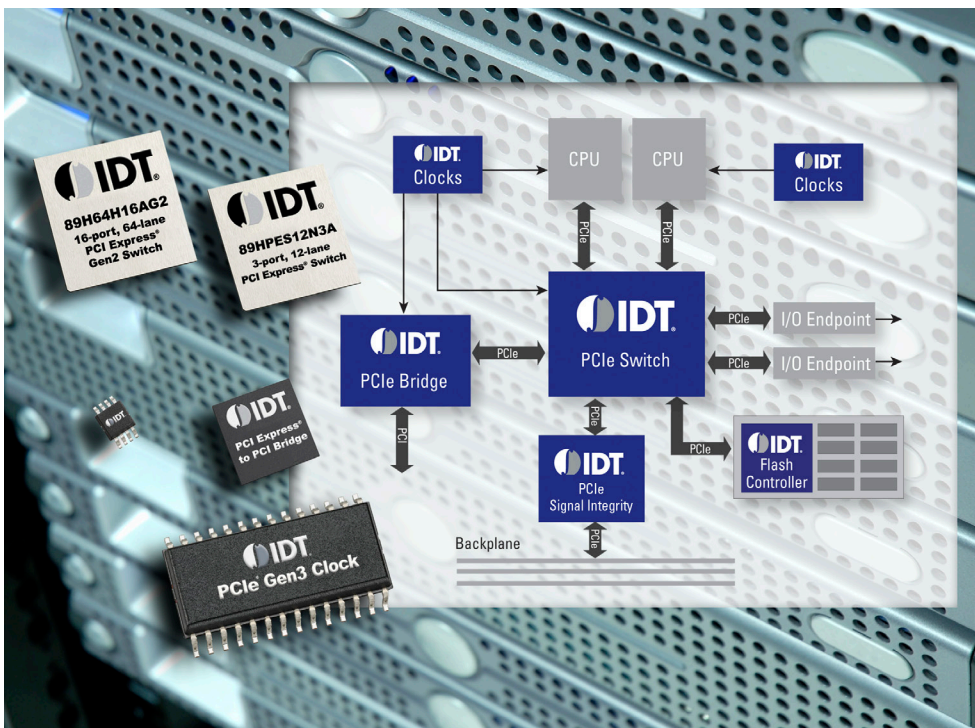
Active signal conditioning for applications up to 8Gbps PCIe Gen 3

- Four, eight and sixteen channels
- Compensates for cable and PCB trace attenuation and ISI jitter
- Configurable receiver equalization
- Configurable transmitter de-emphasis
- On-chip diagnostics support
- Leading edge power minimization in active and shutdown modes
- Mux / Demux modes provided

PCI Express Timing Solutions

Industry's broadest offering of PCIe Gen1, Gen2 and Gen3 clock generation and buffering solutions

- World's first PCI Express Gen3 family of timing devices
- Industry's most accurate all-silicon CMOS oscillator
- Clock Generators and Synthesizers
- Spread Spectrum Clock Generators
- Fanout Buffers and Muxes
- Jitter Attenuators
- Frequency Translators
- Zero Delay Buffers



PCI Express (PCIe) is globally recognized as the general purpose I/O that unifies the component interconnect across many applications including desktop computing, servers, workstations, storage, networking, enterprise router, industrial test and control equipment, defense, aerospace and many more.

IDT provides an extensive product portfolio that tackles design requirements needed to build an entire PCI Express network, including switches, bridges, signal integrity and timing solutions.

Switches

- I/O Expansion Switches
- System Interconnect Switches

Bridges

- PCIe to PCI / PCI-X Bridges
- PCI-X to PCI-X Bridges
- PCI to PCI Bridges

Signal Integrity Products

- Repeaters
- Retimers

Timing

- Clock synthesizers & Spread spectrum clock generators
- PLL zero-delay buffers (ZDB)
- Non-PLL fanout buffers and muxes
- Jitter Attenuators
- All-silicon CMOS Oscillators

PCI Express switches provide the switching capacity for the entire PCI Express network.

PCI Express bridges provide connectivity between PCI Express and a different interconnect protocol.

PCI Express signal integrity is signal conditioning to remove signal noise and correct for trace/cable attenuation.

PCI Express timing provides the reference-clock while maintaining tight jitter specifications for all components.



Learn more:
www.idt.com/go/PCIe