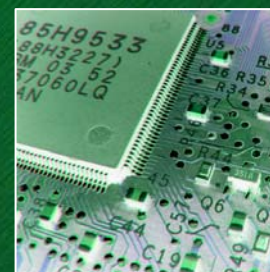
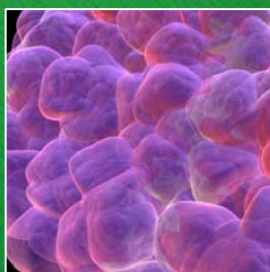


The World's Lowest Latency Cluster Interconnect

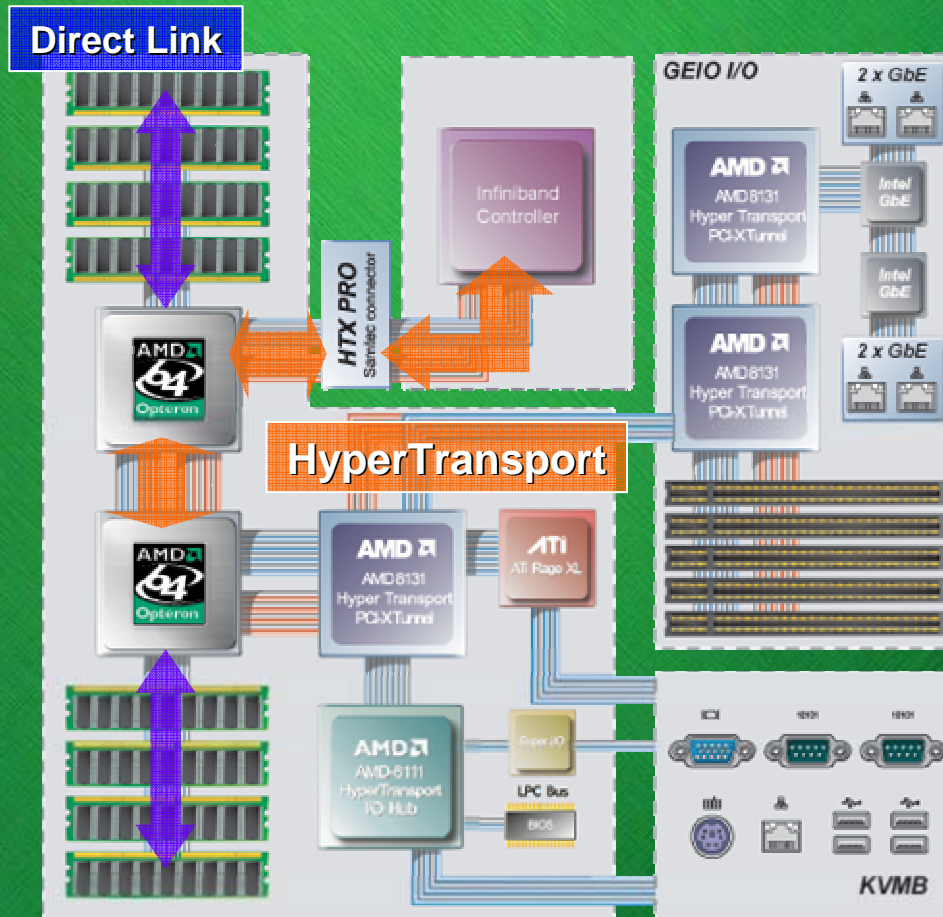


An IWILL-PathScale Joint Development



The World's Lowest Latency Cluster Interconnect

HyperTransport to Infiniband

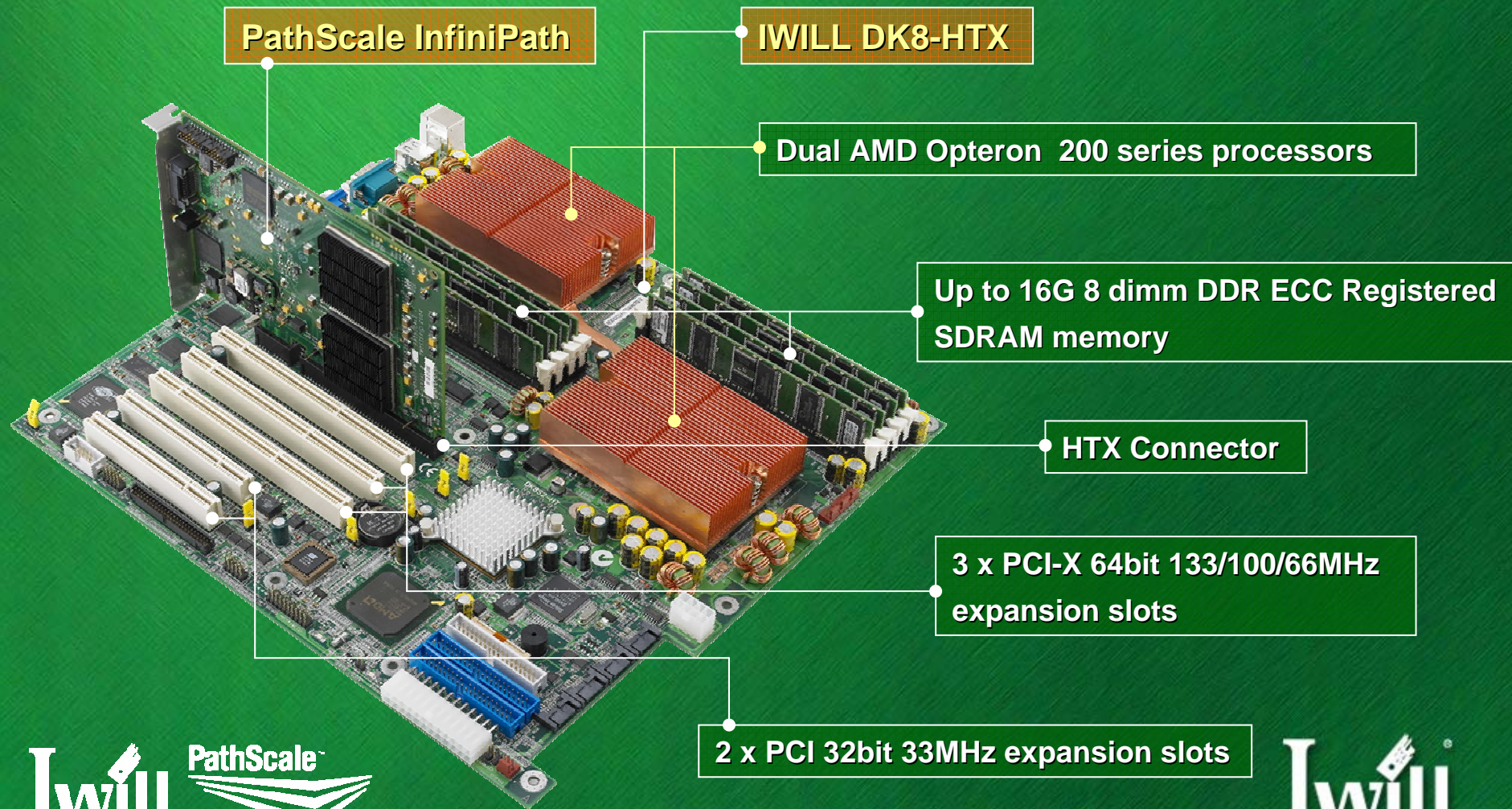


LOWEST LATENCY

Direct connection between an AMD Opteron processor based server and the InfiniBand switch with 1.32 μ s of MPI latency.

The World's Lowest Latency Cluster Interconnect

HyperTransport to Infiniband



The World's Lowest Latency Cluster Interconnect

HyperTransport to Infiniband

INDUSTRY STANDARDS REDUCE RISK, COST AND COMPLEXITY

Combined with the Hyper-Transport Consortium's HTX Slot standard allows the InfiniPath HTX Adapter to connect directly to the Opteron CPU's HyperTransport bus.

LOWEST LATENCY

Direct connection between an AMD Opteron processor based server and the InfiniBand switch with 1.32 μ s of MPI latency.

HIGH BANDWIDTH

Uses the Hyper-Transport interface at a peak rate of 6.4GB/s and InfiniBand at a peak rate of 2GB/s of bi-directional network bandwidth

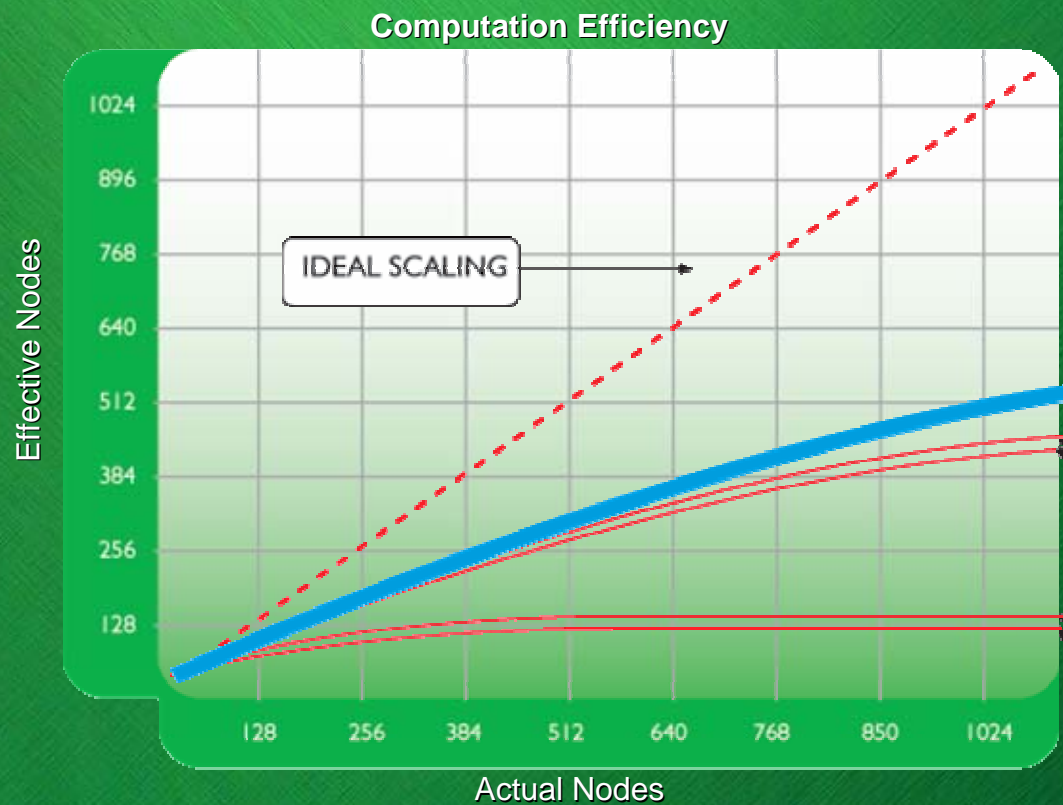
UNMATCHED SCALABILITY

Achieving the crucial 1/2 peak streaming bandwidth point at a packet size of 385 bytes, significantly below both traditional InfiniBand and proprietary cluster interconnects.

The World's Lowest Latency Cluster Interconnect

HyperTransport to Infiniband

HyperTransport-connected to achieve lowest MPI latency
100-200% improvement over existing solutions



PathScale & IWILL enabled clusters can scale to 1000s of nodes

PathScale Infinipath & Iwill
1.32 μ s

- Quorics 1.7 μ s
- CRAY XD1 1.8 μ s
- Myricom 3.5 μ s
- Infiniband 4 μ s

The World's Lowest Latency Cluster Interconnect

HyperTransport to Infiniband



Industry-Leading Performance

- 1.32 μ s one-way latency for 8-byte messages through an InfiniBand switch
- 952 MB/s uni-directional bandwidth
- 385 byte n1/2 streaming message size
- 583 MB/s TCP/IP throughput

IMPLEMENTED ON INDUSTRY STANDARDS

- HyperTransport 1.03
- HTX Expansion Slot Specification
- InfiniBand 1.1 4X Switches & Cabling
- MPI 1.2 with MPICH 1.2.6 (2.0 future)
- OpenIB beginning Q4 of 2005
- AMD64 Direct Connect Architecture

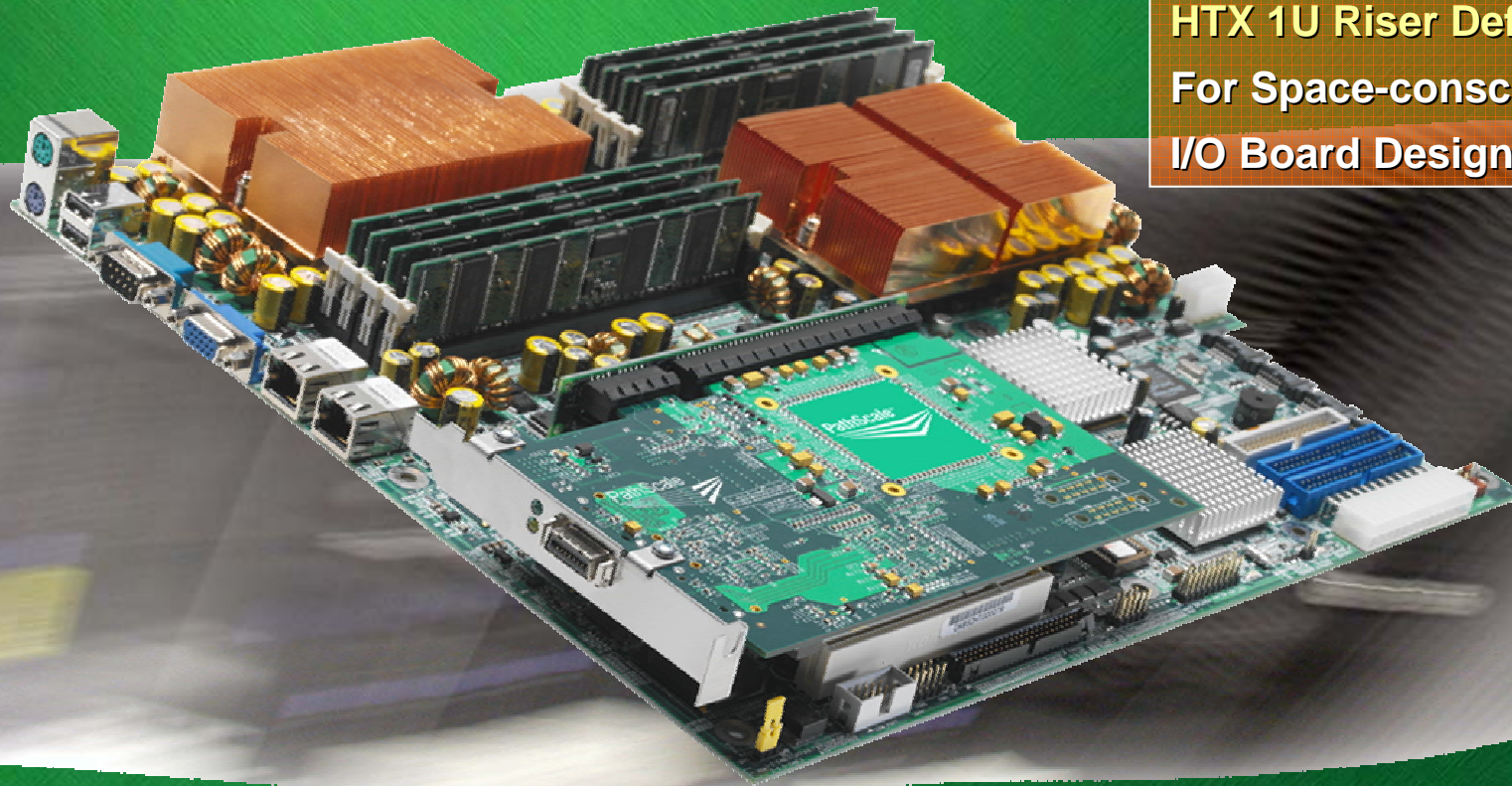
EASY TO MANAGE AND SUPPORT

- Standard InfiniBand fabric management
- No costly hardware, software, or operating system upgrades required
- Supported with SUSE, Red Hat and Fedora Core Linux

The World's Lowest Latency Cluster Interconnect

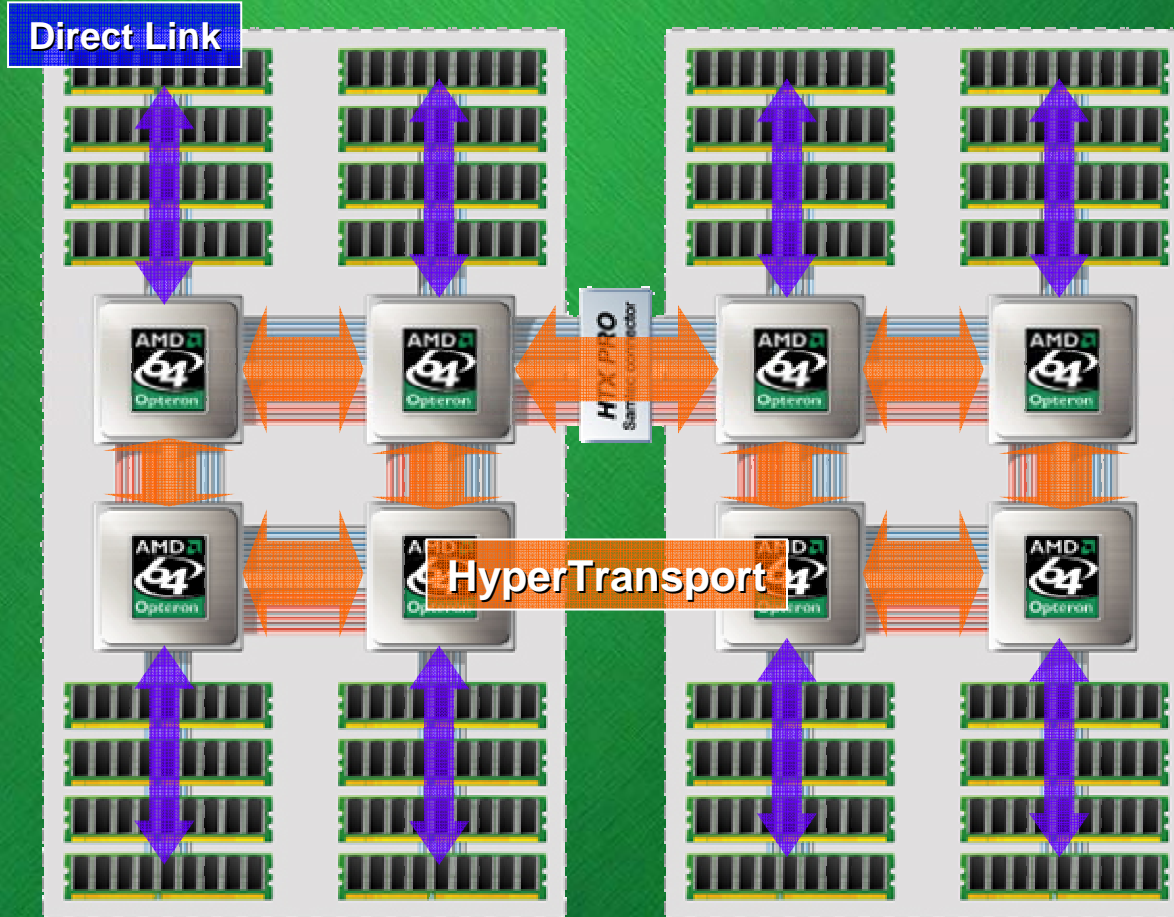
HyperTransport to Infiniband

HTX 1U Riser Defined
For Space-conscious Horizontal
I/O Board Design



HTX-Pro System Connectivity Family

HyperTransport-based multiprocessor modules for system expandability

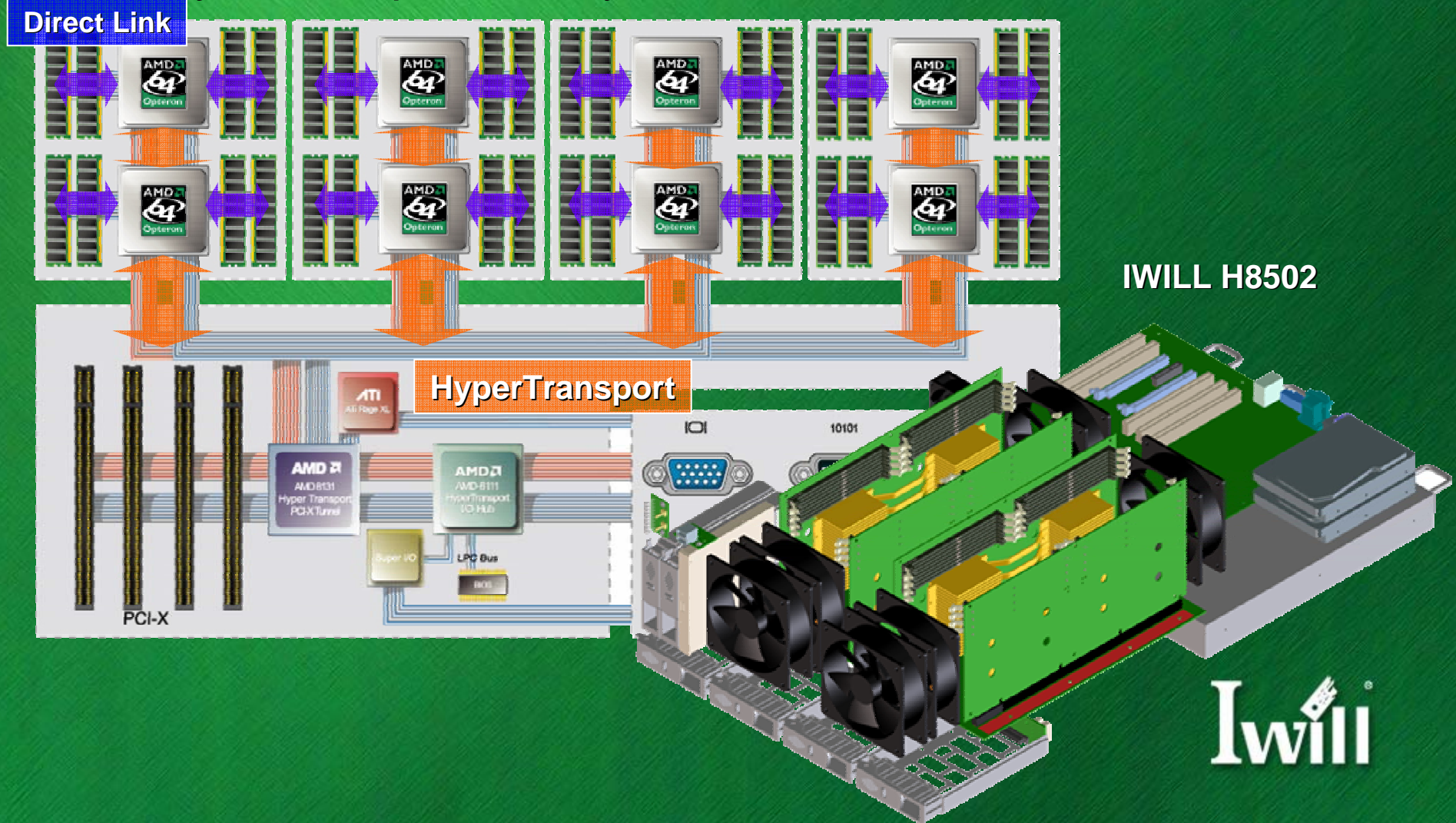


IWILL H8501



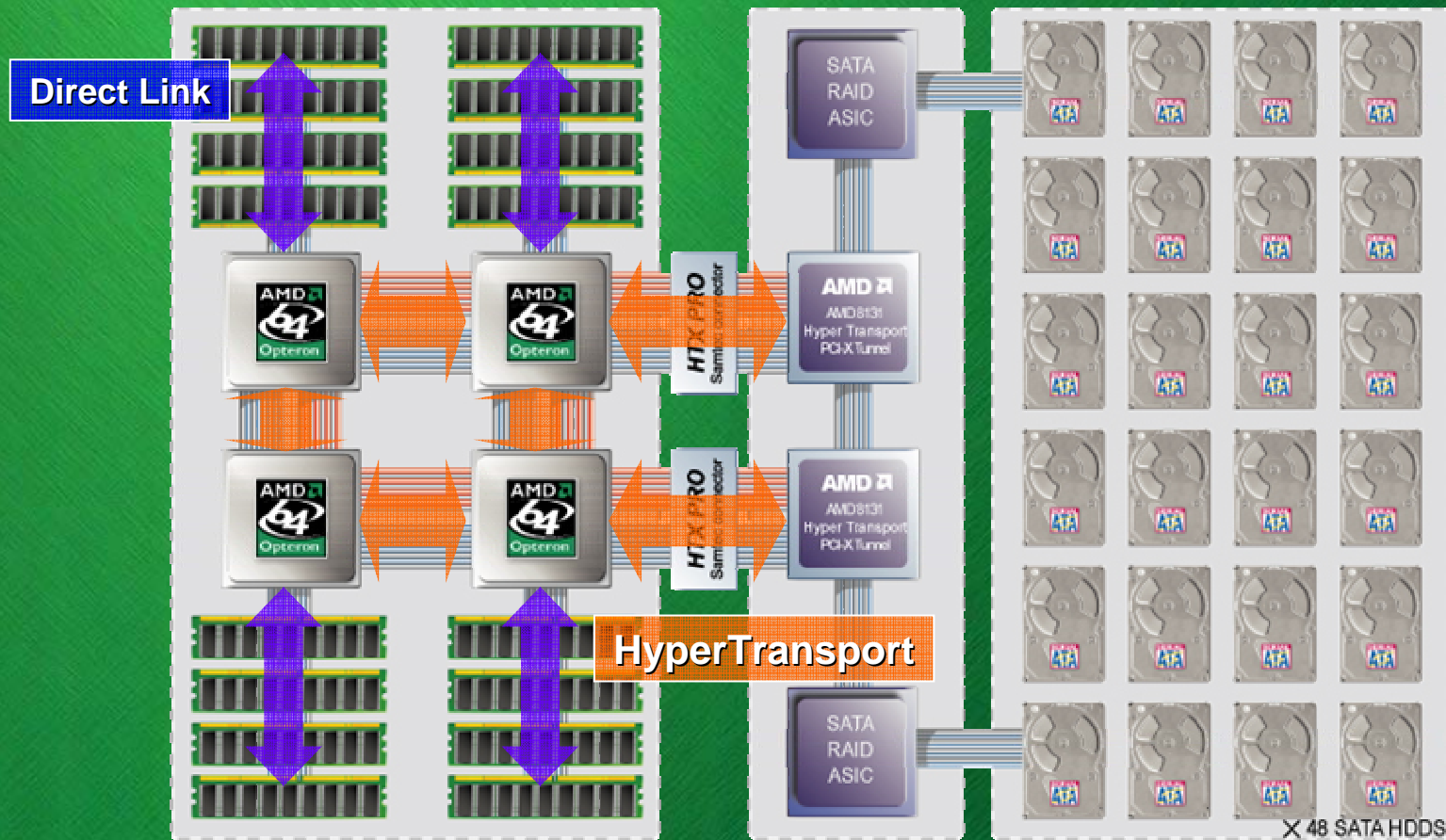
HTX-Pro System Connectivity Family

HyperTransport-based multiprocessor modules for system expandability



HTX-Pro System Connectivity Family

HyperTransport-based **SATA HD RAID** modules
for system expandability

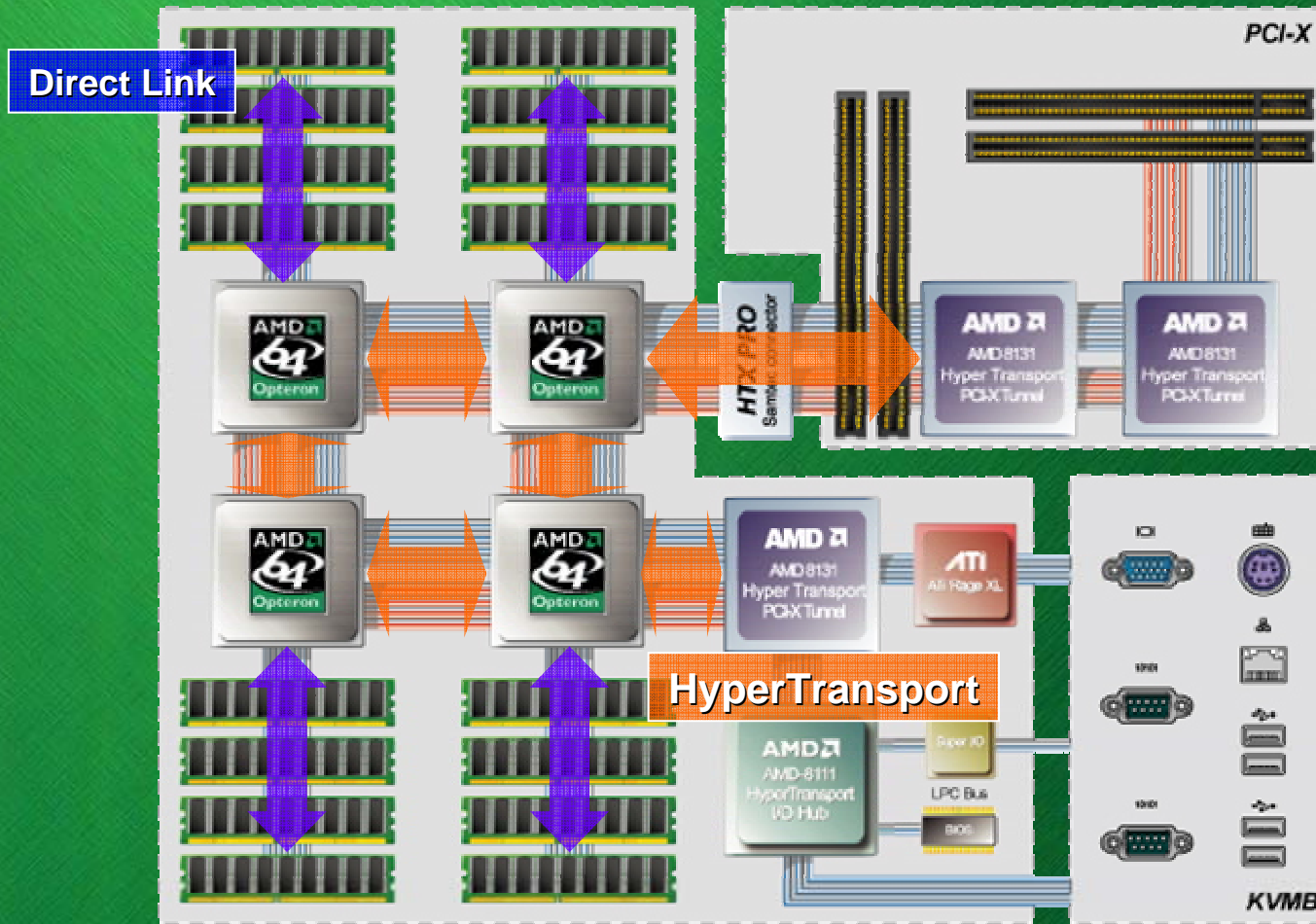


X 48 SATA HDDS



HTX-Pro System Connectivity Family

HyperTransport-based High Speed I/O modules
for system expandability



HTX-Pro System Connectivity Family

HyperTransport-based GbE LAN modules for system expandability

