

Myricom

Extreme Performance

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HPC Linux Financial Markets

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Who we are - History

- Founded in 1994 as a Caltech spin-off
- Pioneered High Performance Computing (HPC) interconnect technology for cluster computing
- Now technology leader in extreme-performance 10-Gigabit Ethernet (10GbE) solutions specialized for vertical markets
- Now, with its fourth generation of networking products, **Myri-10G**, Myricom achieved convergence,
10-Gigabit Ethernet with a supercomputing heritage

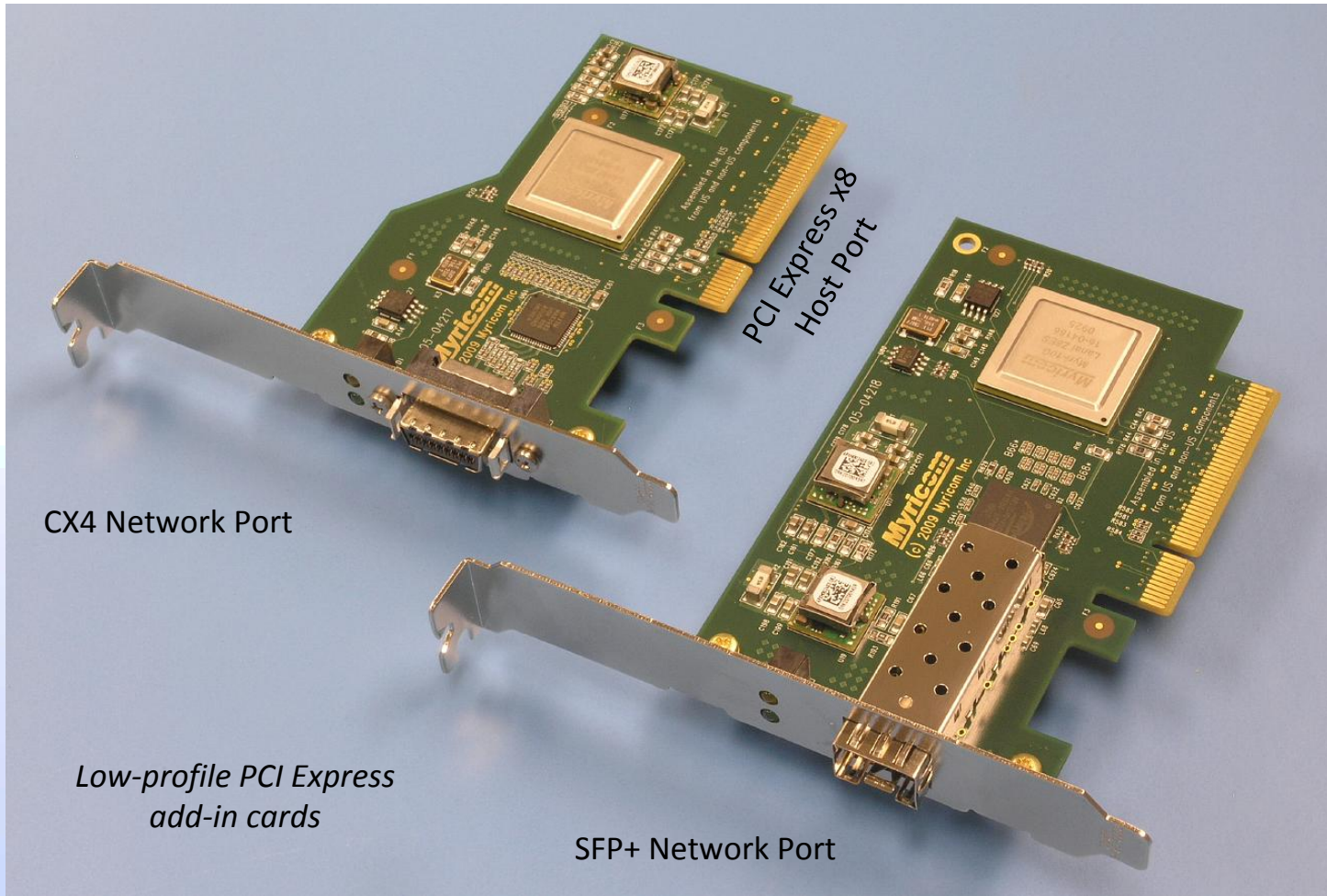
Mission and markets

- To be the leading provider of adaptable Ethernet solutions for vertical markets that require extreme performance
- Five pillars of our business are enabled by software products on Myri-10G 10-Gigabit Ethernet network adapters:
 - Myri-10GE – high-performance, industry-standard, 10-Gigabit Ethernet (includes virtualization applications)
 - ***DBL™ for financial markets***
 - Sniffer10G™ for packet capture and sniffing security applications, compliance, network monitoring, test and measurement
 - VideoPump™ for IPTV and streaming video
 - MX for HPC (High Performance Computing)

Opportunities and Strengths

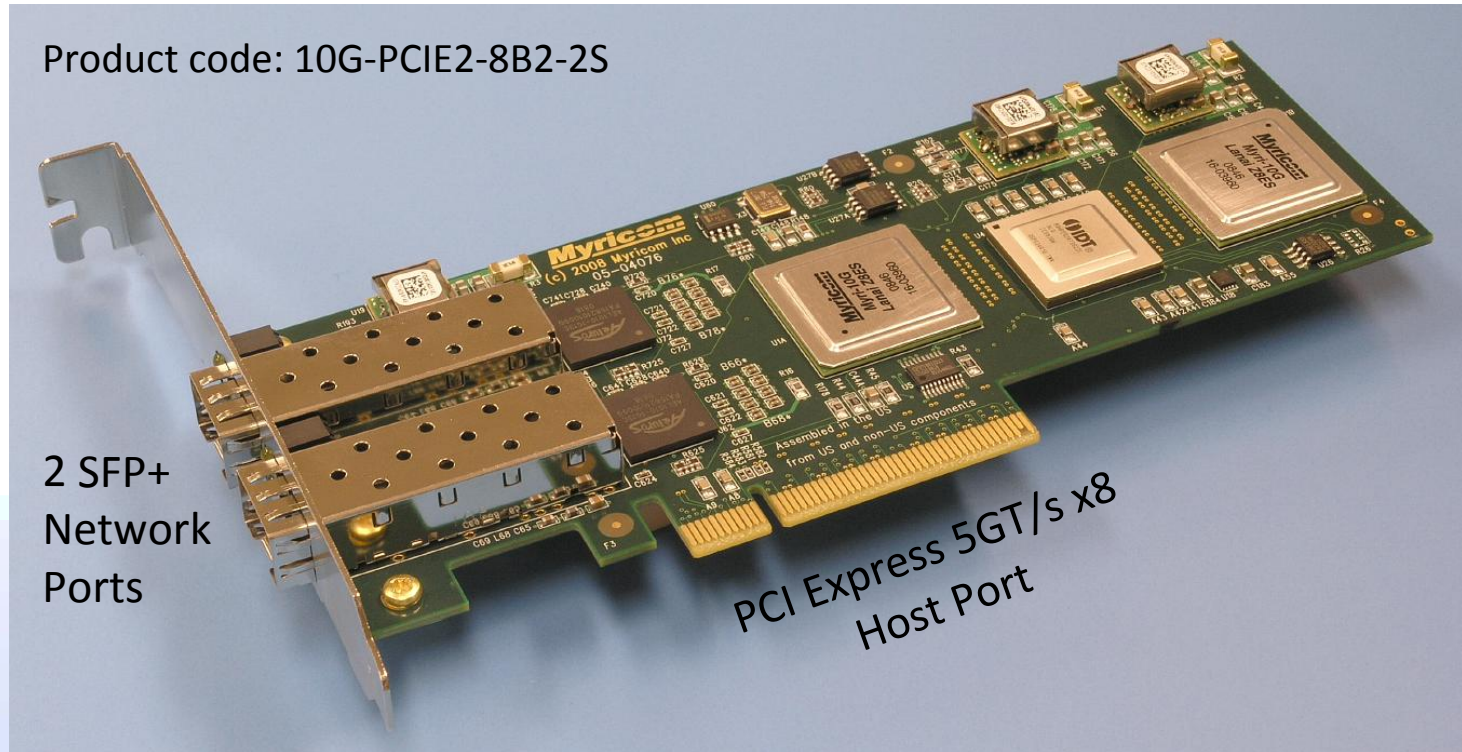
- Unique, adaptable, networking architecture of hardware and software
- Elite technical team with industry reputation for innovation
- 4th-generation market-proven networking products
- We leverage our architecture, people, and experience to innovate new hardware+software products to attack rapidly evolving markets that require extreme networking performance.

Myri-10G Network Adapters



“Gen2” PCIe v2.0 (5GT/s) network adapter with 2 SFP+ ports

Product code: 10G-PCIE2-8B2-2S



2 SFP+
Network
Ports

PCI Express 5GT/s x8
Host Port

The two ports can carry TCP/IP traffic concurrently at an aggregate data rate of 19.8 Gb/s with a 9KB MTU, or 18.9 Gb/s with a 1500B MTU.

Current trends in the Financial Trading Markets

- Latency matters
 - Vendors, including Myricom, introduce ever lower-latency hardware and software
- However, rewriting or retooling the application could provide significantly more latency improvement than from networking
- Customers are trading-off time-to-deployment and robustness vs. absolute performance improvements

Our Approach

- Transparent acceleration for BSD Sockets and Winsock2, but not in a one-size-fits-all fashion:
 - Our hardware+software design reflects how customers write their applications
 - Minimize use of application/library “overloading” where possible, to minimize complexity and unintended side effects
 - Available on both Linux and Windows using different approaches to tightly integrate existing applications to the network
 - The lowest latency and software overhead in the market for existing applications that require TCP/UDP on the wire
- This approach delivers competitive advantage for our customers.

Myricom's Crystal Ball for Financial Trading

- Application streamlining coupled with networking platform improvements continues to drive performance
- Extreme performance available on Microsoft Windows, as well as Linux, platforms
- Time-stamping support
 - Including tools for analyzing where time is spent between the network port and the application

Myricom's Crystal Ball for Financial Trading

- Ultra-Low Latency on Ethernet
 - Standard, transparent protocols (UDP/TCP)
 - Extreme performance achieved without resorting to specialty networks such as Infiniband (without RoCEE, without verbs)
 - Evolve and innovate around standards/commodity busses
- Myricom has been in the low-latency game since our founding in 1994
 - In Financial Trading, we certainly see what we saw in HPC:

Time is Money

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