

IBTA Update

Lloyd Dickman, QLogic
InfiniBand Trade Association

September 17, 2007

A stylized logo graphic for InfiniBand, consisting of several overlapping, curved blue lines that form a circular, orbital shape. Two small grey spheres are positioned at the top and bottom of the central circular area, resembling nodes or data points.

INFINIBANDSM
TRADE ASSOCIATION

Strong Industry Participation

Steering Committee



Corporate Members

AMCC
Amphenol Interconnect Products
Brocade Communications Systems, Inc.
Finisar Corporation
Flextronics
Foxconn
Fujikura America, Inc.
Fujitsu Components America, Inc.
Fujitsu Limited
Hewlett-Packard Company
Hitachi, Ltd.
JAE Electronics, Inc.
Lamprey Networks, Inc.
LEONI High Speed Cables
Liquid Computing
LSI Logic
Luxtera, Inc.
Molex Inc.
NEC Corporation
Network Appliance Inc.
Obsidian Research Corporation
Panduit Corporation
Sandia Corporation
Silicon Graphics, Inc.
Tyco Electronics Corporation
W.L. Gore & Associates, Inc.
Zarlink Semiconductor



IBTA Structure

- Steering Committee

- Technical Working Group

- Applications Working Group
- ElectroMechanical Working Group
- Link Working Group
- Management Working Group
- Software Working Group

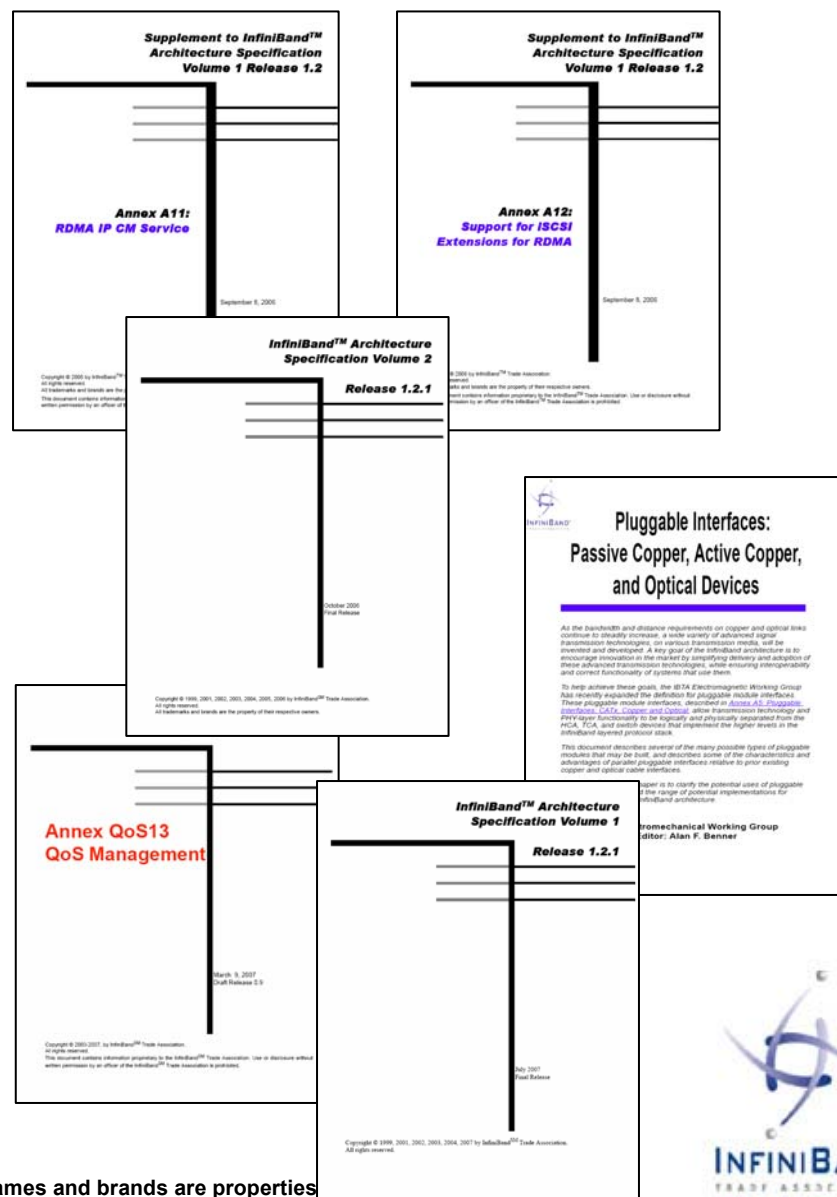
- Compliance and Interoperability Working Group

- Marketing Working Group



Technical Working Group

- Co-chairs
 - Paul Grun, Intel
 - Diego Crupnicoff, Mellanox
- September 2006
 - Vol1 Annex 11 – RDMA IP CM Service
 - Vol1 Annex 12 – Support for iSCSI Extensions for RDMA (iSER)
- October 2006
 - Vol2 Errata
- April 2007
 - Vol2 Annex A5: Pluggable Interfaces
 - Supporting whitepaper
- July 2007
 - Vol1 1.2.1 – Now in general membership review
 - Vol1 Annex 13 – QoS Management
 - Errata



Compliance and Interoperability Working Group

- Co-chairs
 - Tuan Phamdo, Intel
 - Lenny Dingle, IBM

Integrators' List

IBTA Integrators' List
April 2007 Plugfest

HCAs (Host Channel Adapters)
(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Part#	HW	SW	Core Compliance		Additional Capabilities					
						EMMA	EMMA	EMMA	EMMA	EMMA	EMMA	EMMA	EMMA
Mellanox Technologies LTD	Quad-port, 10Gb/s w/ media adapter support, PCIe v8, 128MB memory, w/ kernel, RHEL 5.0	MH5426-1TC	A1	4.8.2		✓	✓	✓	✓	✓	✓	✓	✓
	Quad-port, 10Gb/s w/ media adapter support, PCIe v8, mainline, w/ kernel	MH5426-1T	A2	5.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	Quad-port, 20Gb/s w/ media adapter support, PCIe v8, 128MB memory, w/ kernel, RHEL 5.0	MH5426-1TC	A2	4.8.2		✓	✓	✓	✓	✓	✓	✓	✓
	Quad-port, 20Gb/s w/ media adapter support, PCIe v8, mainline, w/ kernel, RHEL 5.0	MH5426-1TC	A2	5.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	Single-port, 10Gb/s w/ media adapter support, PCIe v8, mainline, w/ kernel	MH5426-1T	A4	7.20		✓	✓	✓	✓	✓	✓	✓	✓
	Single-port, 10Gb/s w/ media adapter support, PCIe v8, mainline, w/ kernel, RHEL 5.0	MH5426-1TC	A2	7.20		✓	✓	✓	✓	✓	✓	✓	✓
Cisco Systems, Inc	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
Flextronics LTD	10 Port QSFP w/ InfiniBand Switch	F-4402044	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
	10 Port QSFP w/ InfiniBand Switch	F-4402044	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
Vubate	10 port QSFP InfiniBand Switch	IB-1020148	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
	10 port QSFP InfiniBand Switch	IB-1020148	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓

Switches
(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Part#	HW	SW	Core Compliance		Additional Capabilities					
						EMMA	EMMA	EMMA	EMMA	EMMA	EMMA	EMMA	EMMA
Cisco Systems, Inc	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
	SP7 7000 24 port QSFP Switch	SP7 7000	24	2.2.0		✓	✓	✓	✓	✓	✓	✓	✓
Flextronics LTD	10 Port QSFP w/ InfiniBand Switch	F-4402044	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
	10 Port QSFP w/ InfiniBand Switch	F-4402044	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
Vubate	10 port QSFP InfiniBand Switch	IB-1020148	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓
	10 port QSFP InfiniBand Switch	IB-1020148	24	0.1.1		✓	✓	✓	✓	✓	✓	✓	✓

- Active involvement of Lamprey Networks and UNH/IOL
- Plugfests
 - #11: April 2007
 - Included active cables, both copper and fibre optic
 - #12: October 2007

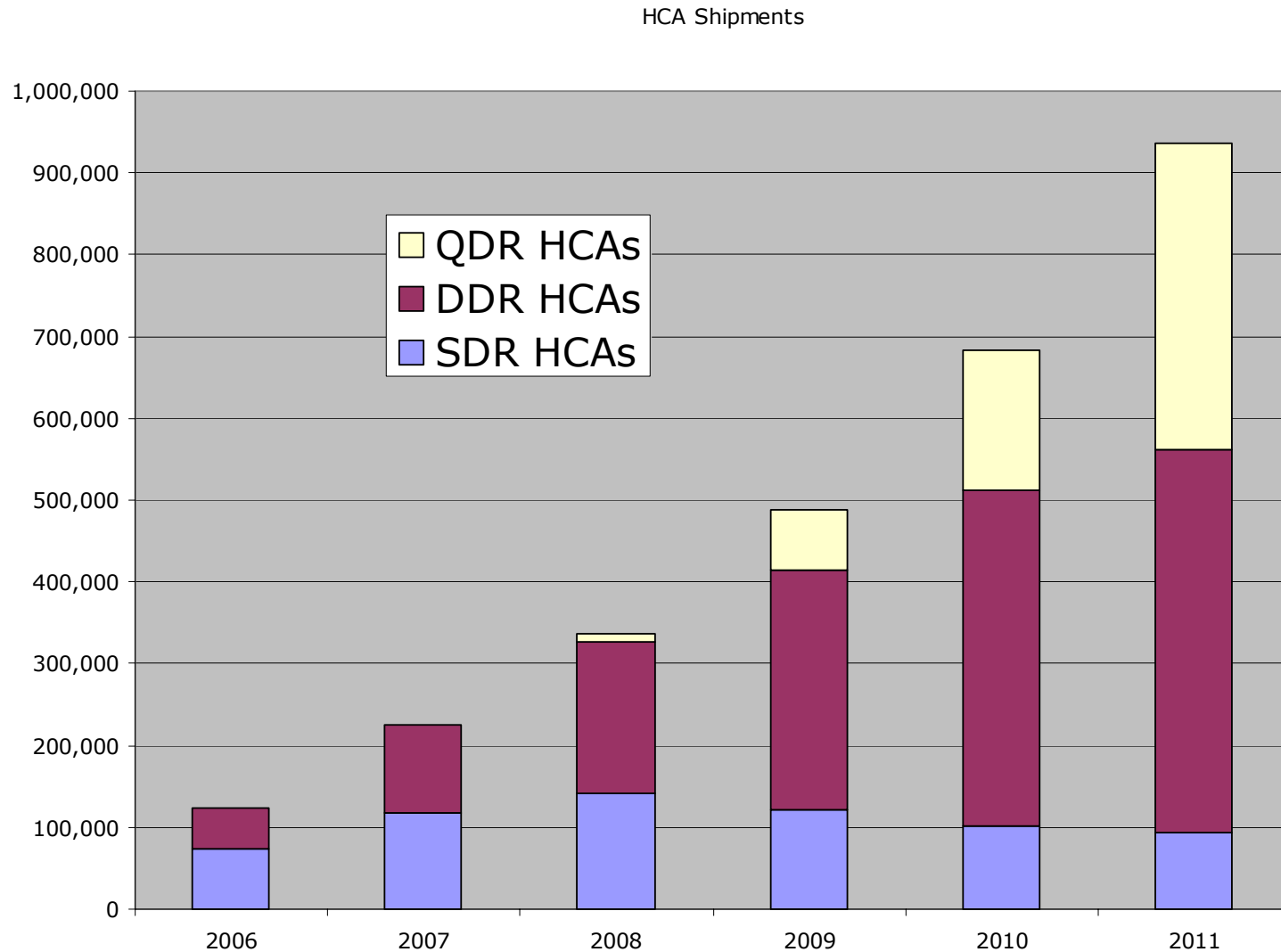


Marketing Working Group

- Chair – Ishan Sehgal, IBM
- April/May 2007 Sonoma Conference
- May 2007 - IDC InfiniBand Market Forecast
 - Forecast issued, press briefings @ SNW
- September 2007 Low-Latency Forum



IDC Forecast: HCA Shipments

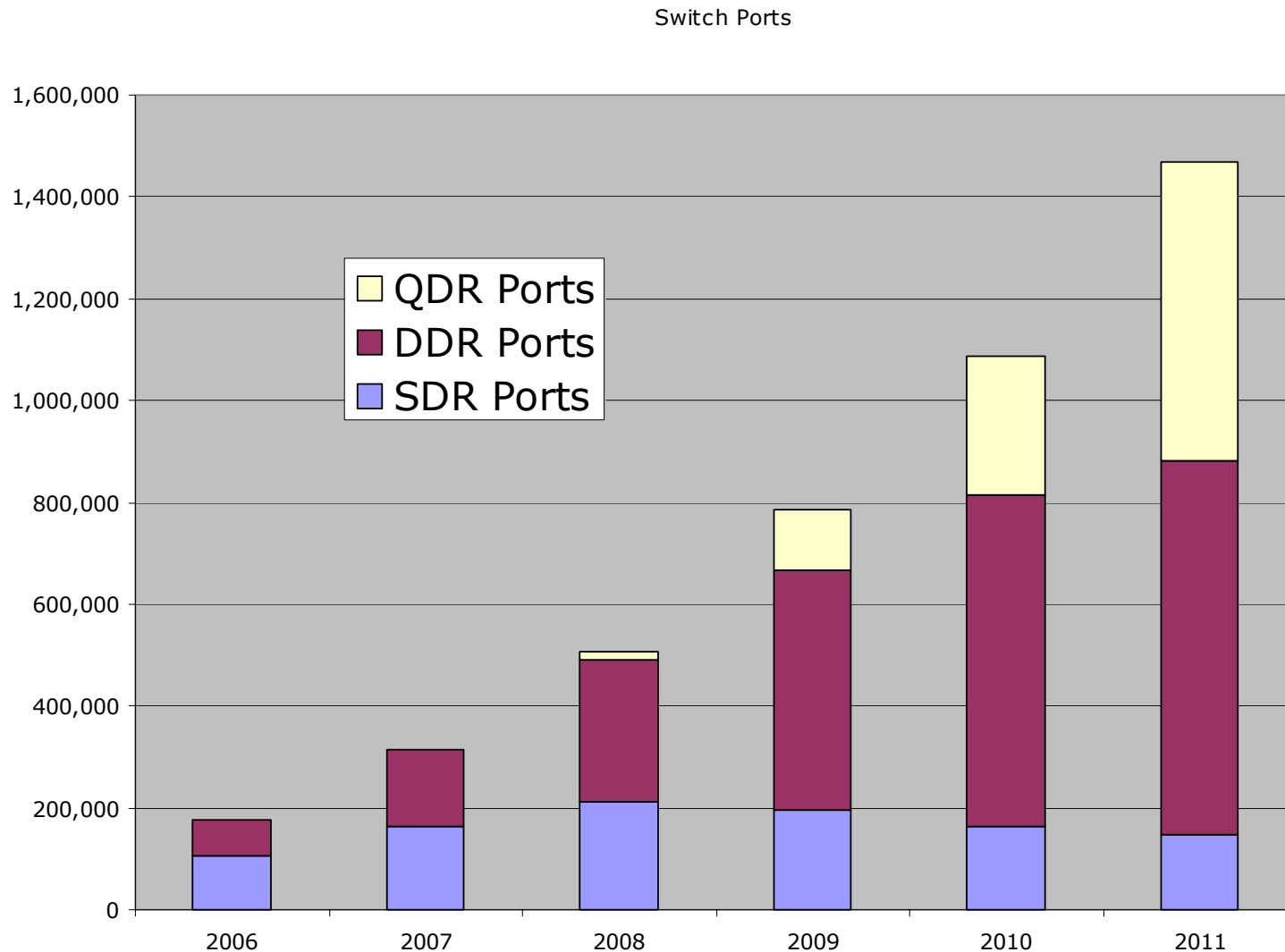


Source: IDC InfiniBand Forecast, May 2007

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IDC Forecast: Switch Ports



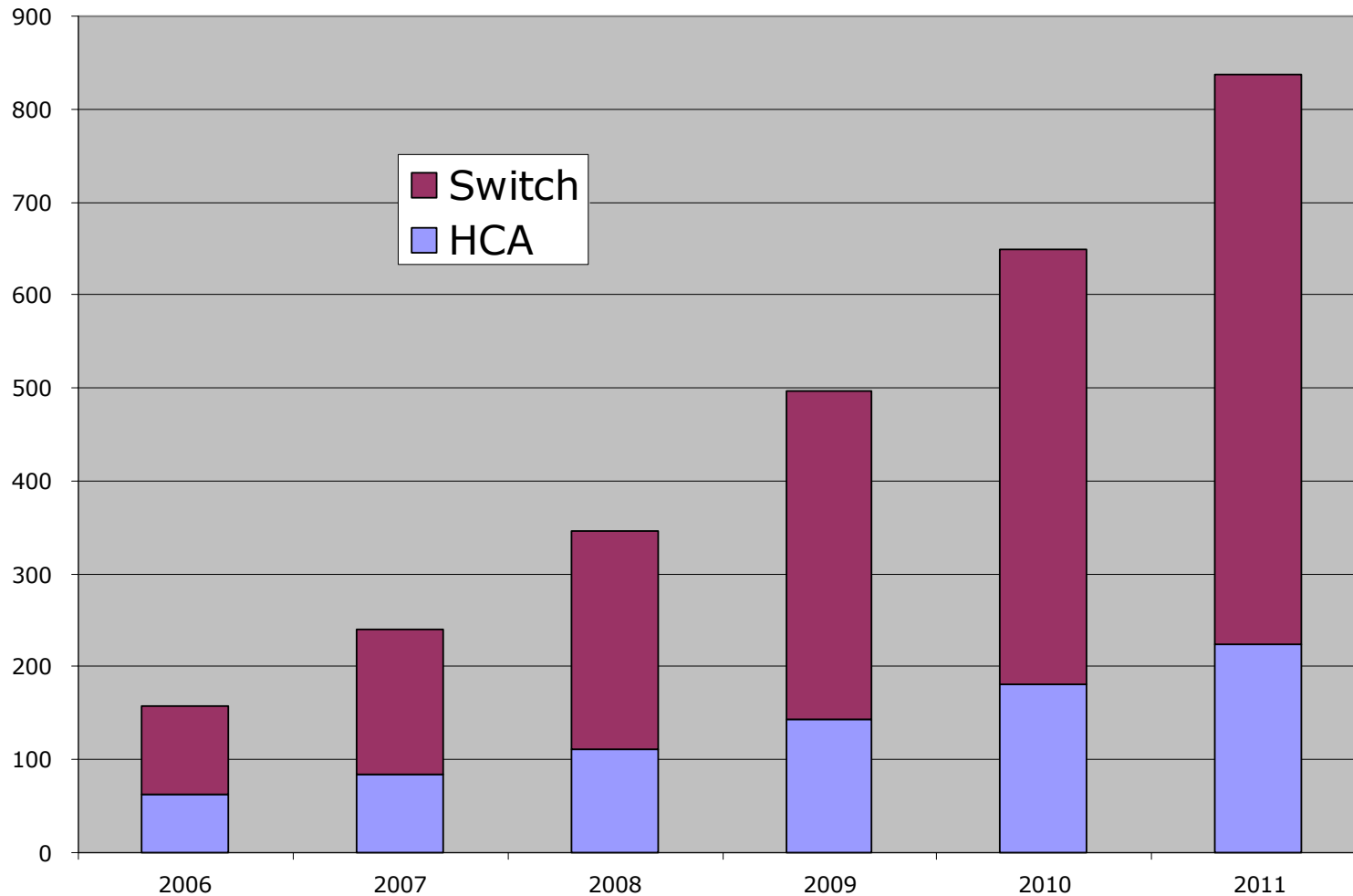
Source: IDC InfiniBand Forecast, May 2007

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IDC Forecast: HCA+Switch Factory Revenue

Factory Revenue (\$M)



Source: IDC InfiniBand Forecast, May 2007

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State of InfiniBand

- Strong presence in HPC, with traction forming and growth forecast for the commercial data center
- Strong eco-system currently in place for 4x SDR (10 Gbps) and 4x DDR (20 Gbps) products
- InfiniBand specs in place for future QDR



Thank You



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TRADE ASSOCIATION MEMBER