



ConnectX Competitive Comparison

External

April 2017

		Broadcom NetXtreme C-Series	Chelsio Terminator 5/6	Intel Fortville XL710	Cavium (QLogic) FastLinq	ConnectX-4 Lx ConnectX-5	Future Data
Interfaces	Speeds	10/25/40/50 GbE	10/40/25/50/100 GbE	10 / 40GbE 25GbE (using 40Gb/s IC with gearbox)	25/100 GbE	10 / 25 GbE 40 / 50 / 100 GbE	Future Data
	PCIe	Gen3 x8	Gen3 x16	Gen3 x8	Gen3 x16	Gen4 x16	Future Data
Performance	RDMA Latency	Not supported	2.14us	Not supported	5.9us (RoCE)	0.7 usec	3x
	Message Rate - RDMA	Not supported	6Mpps	Not supported	4.7Mpps	148Mpps	2x
	Message Rate - DPDK	30 Mpps (claimed)	Unknown	71.5Mpps (claimed)	Unknown	131.7Mpps	1.8x
	Total Throughput	47Gb/s (measured)	77Gb/s (measured)	45Gb/s	100Gb/s (claimed)	200Gb/s	2X
Cloud	Virtualization Accelerators	OVS offload	OVS offload VXLAN, NVGRE	VXLAN, NVGRE	VXLAN, NVGRE	OVS offload, SRIOV, hairpin, overlay network (VXLAN, NVGRE), and more	More
	Security Accelerators	Not supported	T6: Crypto	Not supported	Not supported	Innova IPsec/SSL	More
Storage	Storage Accelerators	Not supported	ToE iSCSi Offload	Not supported	NVMe Direct	Encryption, iSER, T10-DIF, erasure coding, NVMe over Fabric	More features
Topology	Datacenter Accelerators	Not supported	Not supported	Not supported	Not supported	Multi-Host, Socket Direct, PCIe Switch	40% Reduction in Cost



Thank You!