

RoCE IBTA RoCE Interoperability List

April 2016

These Interoperability results represent system tests and include the testing of the entire environment including device transmitters, cable media and device receivers. The Interoperability results include 10, 25, 40, 50 and 100 GbE RoCE devices and SFP28 and QSFP28 cables.

While every effort was made to test worst-case conditions, results may vary with alternative port configurations, device and cable manufacturing variation, device firmware and software, traffic density and data patterns, temperature variation, etc. The following documentation identifies the test conditions used to obtain these Interoperability results.

Hardware used to test Interoperability

Manufacturer	Description of Hardware	Model	Type	FW	SW	Speed
Emulex	RNIC SFP 10Gb/s Ethernet	OCe14102	RNIC	10.6.88.0	3.2-2.000	10 GbE
Emulex	RNIC QSFP 40Gb/s Ethernet	OCe14401B	RNIC	10.6.88.0	3.2-2.000	40 GbE
Mellanox	ConnectX@-3 Pro EN network interface card, 10GbE, dual-port SFP+	MCX312B-XCCT	RNIC	2.36.500	3.2-2.000	10 GbE
Mellanox	ConnectX@-3 Pro EN network interface card, 40/56GbE, dual-port QSFP	MCX314A-BCCT	RNIC	2.36.500	3.2-2.000	40 GbE
Mellanox	ConnectX@-3 VPI adapter card, dual-port QSFP, FDR IB (56Gb/s) and 40/56GbE	MCX354A-FCBT	RNIC	2.36.500	3.2-2.000	40 GbE
Mellanox	ConnectX@-3 Pro VPI adapter card, dual-port QSFP, FDR IB (56Gb/s) and 40/56GbE	MCX354A-FCCT	RNIC	2.36.500	3.2-2.000	40 GbE
Mellanox	ConnectX@-4 Lx EN network interface card, 25GbE dual-port SFP28	MCX4121A-ACAT	RNIC	14.14.2036	3.2-2.000	25 GbE
Mellanox	ConnectX@-4 Lx EN network interface card, 10GbE dual-port SFP+	MCX4121A-XCAT	RNIC	14.14.2036	3.2-2.000	40 GbE
Mellanox	ConnectX@-4 Lx EN network interface card, 40GbE single-port QSFP28	MCX4131A-BCAT	RNIC	14.14.2036	3.2-2.000	40 GbE
Mellanox	ConnectX@-4 Lx EN network interface card, 50GbE single-port QSFP28	MCX4131A-GCAT	RNIC	14.14.2036	3.2-2.000	50 GbE
Mellanox	ConnectX@-4 EN network interface card, 50GbE dual-port QSFP28	MCX414A-GCAT	RNIC	12.14.2036	3.2-2.000	50 GbE
Mellanox	ConnectX@-4 EN network interface card, 40/56GbE dual-port QSFP28	MCX416A-BCAT	RNIC	12.14.2036	3.2-2.000	40 GbE
Mellanox	ConnectX@-4 EN network interface card, 100GbE dual-port QSFP28	MCX416A-CCAT	RNIC	12.14.2036	3.2-2.000	100 GbE
Mellanox	Half-Width 12-port Non-blocking 40/56GbE	MSX1012B-2BFS	Switch	9.3.8000	3.5.1006	40 GbE
Mellanox	SwitchX@-2 InfiniBand to Ethernet gateway, 36 QSFP ports	MSX6036G-2SFS	Switch	9.3.8000	3.5.1006	40 GbE
Mellanox	32-port Non-blocking 100GbE Supports speeds of 10/25/40/50/56/100GbE	MSN2700-CS2F	Switch	13.0350..0410	3.5.1006	100 GbE

Software Used to Test Interoperability

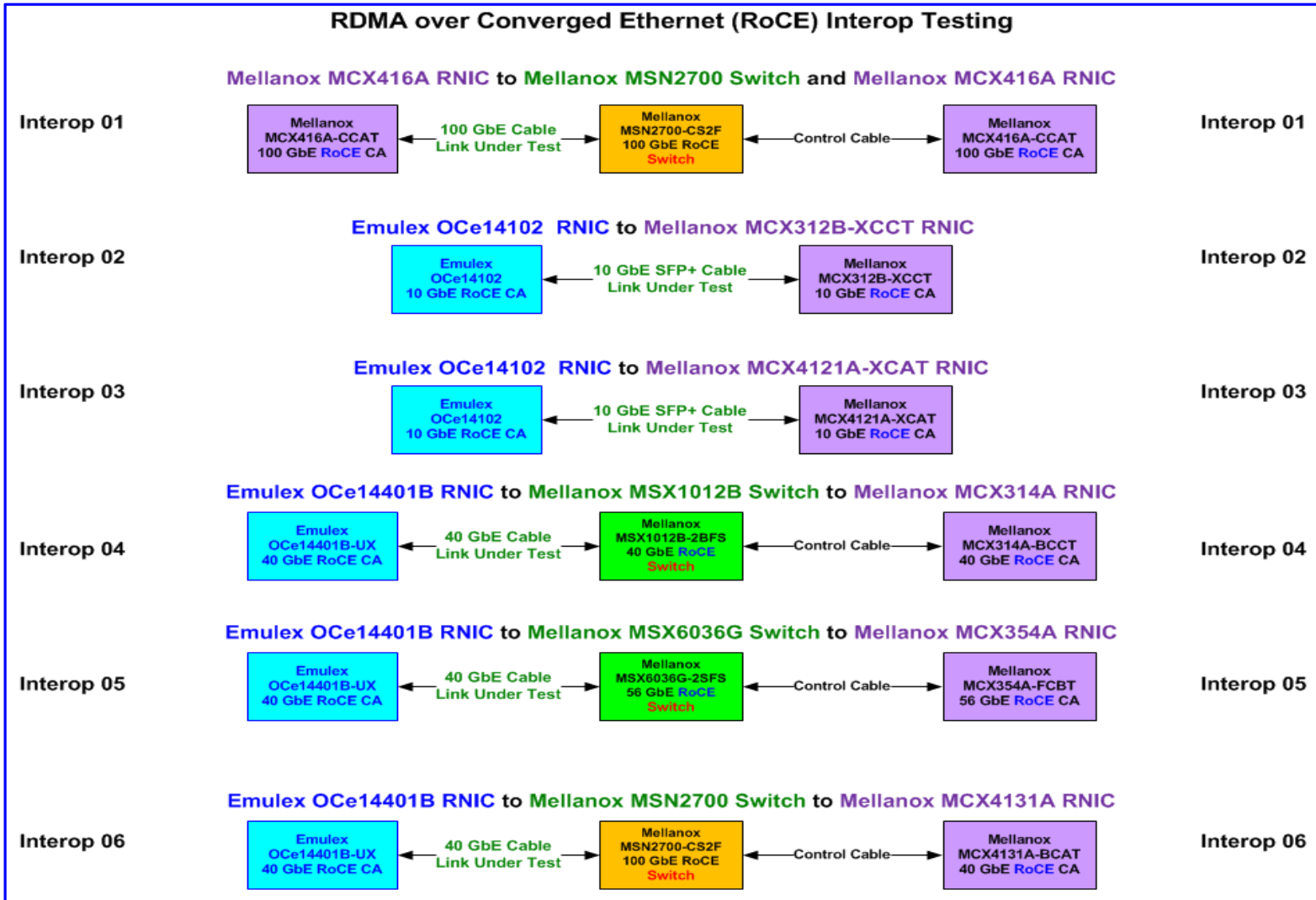
Software	Versions
Mellanox OFED Version	3.2-2.0.0.0
Open MPI Used	Open MPI 1.10.2
Open MPI Documentation	https://www.open-mpi.org/doc/
Intel Benchmarks	https://software.intel.com/en-us/imb-user-guide
Test Plan version	OFA-IWG Interoperability Test Plan-v1.51-v5.pdf
Test Duration	3-15 minutes

Conditions for passing Interoperability Testing	
Link Width	Link width is @ expected width - i.e. 1x,4x, etc
Link Speed	Link speed is @ expected speed - i.e. FDR
Symbol Errors	There must be no errors during the MPI Run
Link and Poort Errors	There must be no errors during the MPI Run
MPI Test	The MPI test must run to completion without error

Open MPI Intel Benchmark Tests	
PingPong	Gather
PingPing	Gatherv
Sendrecv	Scatter
Exchange	Scatterv
Allreduce	Alltoall
Reduce	Alltoallv
Reduce_scatter	Bcast
Allgather	Barrier
Allgatherv	

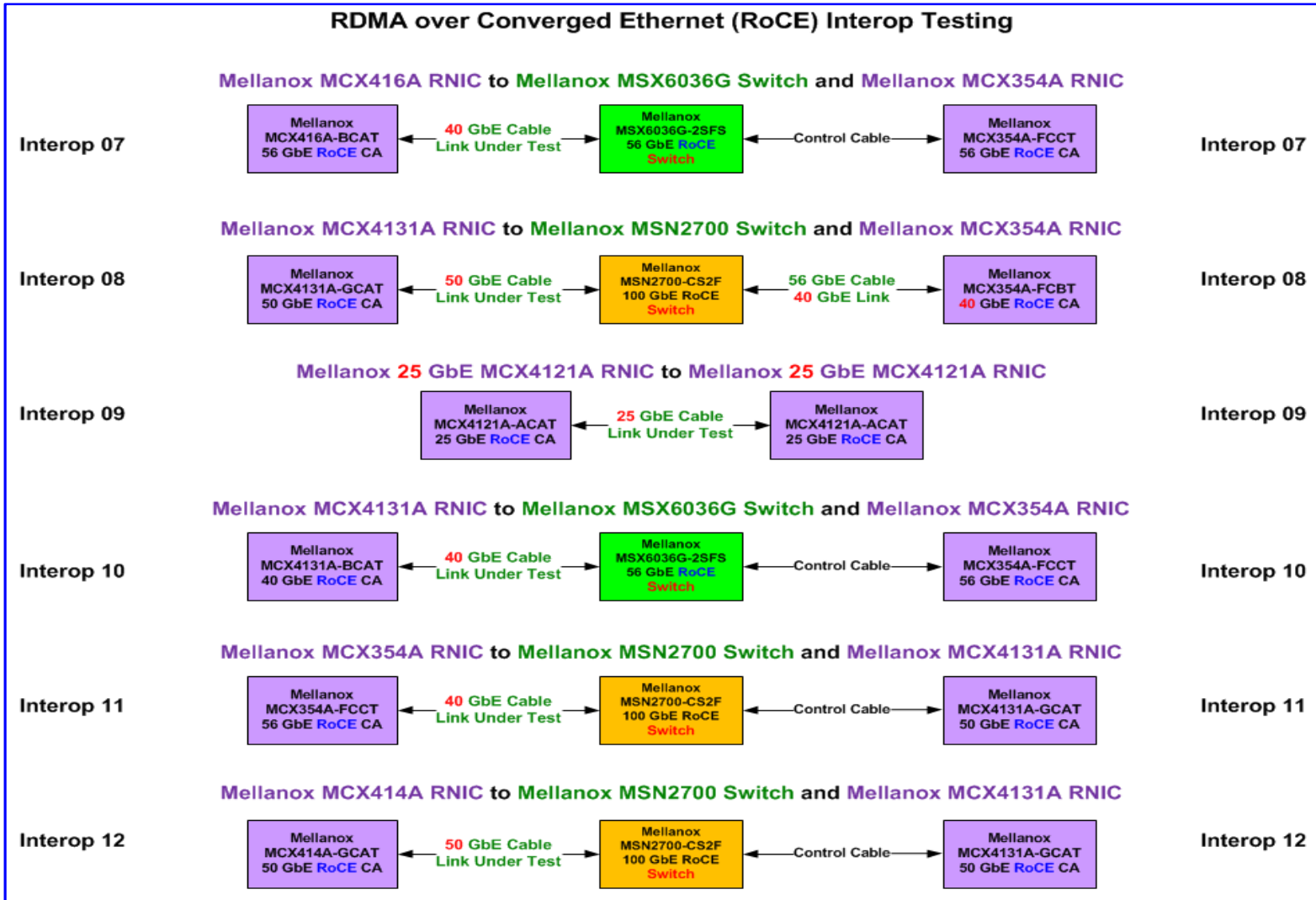
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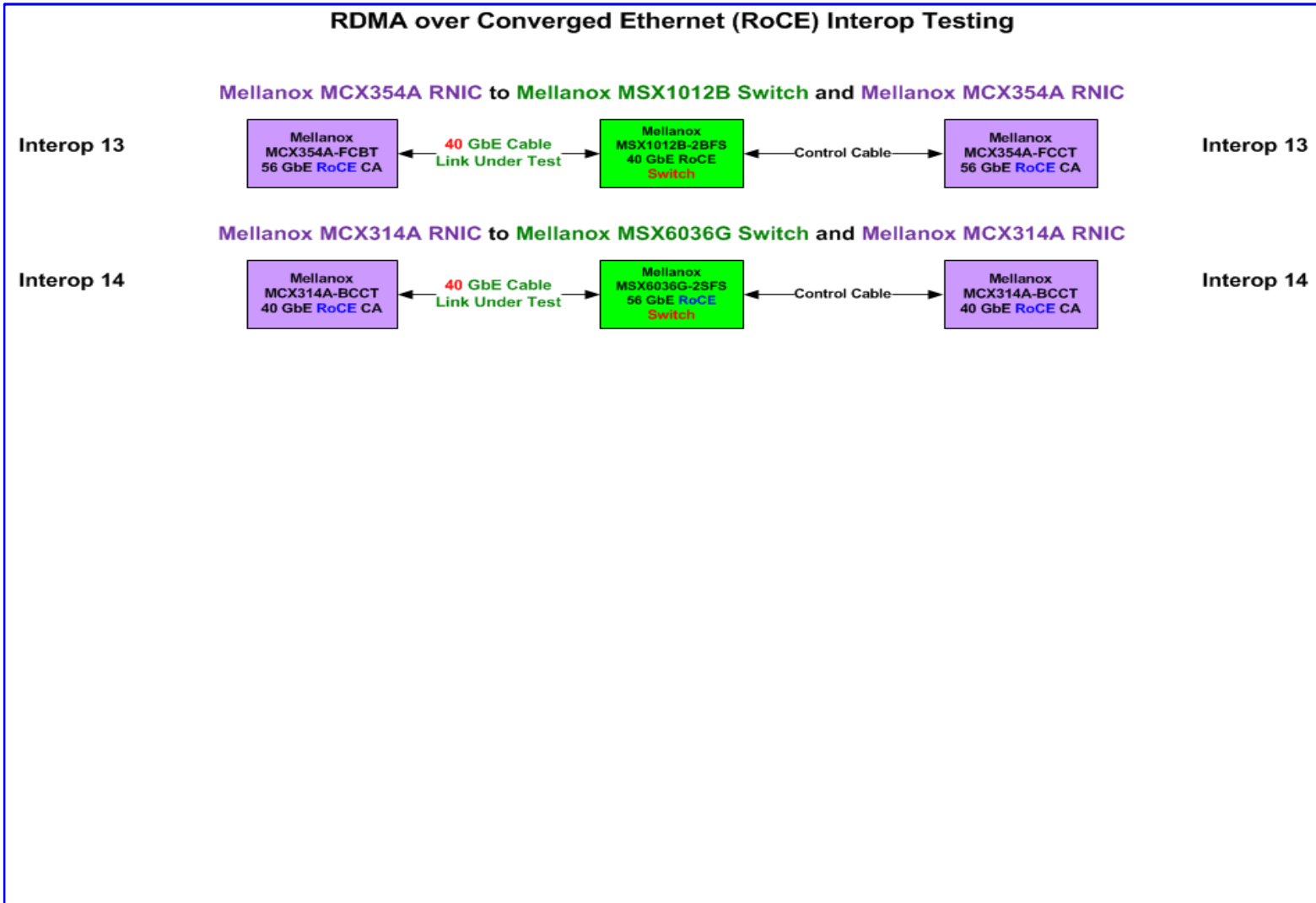
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IBTA RoCE Interoperability List

10 Gigabit Ethernet

Interop 02



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox RoCE Card #2	Link Speed	Interop Result
Mellanox	1x	2	30	Copper - Unequalized	SFP28	OCe14102	MCP2M00-A002(25G)	MCX312B-XCCT	10	Pass

Emulex OCe14102 RNIC to Mellanox MCX312B-XCCT RNIC





IBTA RoCE Interoperability List

10 Gigabit Ethernet

Interop 03



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox RoCE Card #2	Link Speed	Interop Result
Mellanox	1x	2	30	Copper - Unequalized	SFP28	OCe14102	MCP2M00-A002(25G)	MCX4121A-XCAT	10	Pass

Emulex OCe14102 RNIC to Mellanox MCX4121A-XCAT RNIC





IBTA RoCE Interoperability List

25 Gigabit Ethernet

Interop 09



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox RoCE Card #2	Link Speed	Interop Result
Mellanox	1x	2	30	Copper - Unequalized	SFP28	MCX4121A-ACAT	MCP2M00-A002(25G)	MCX4121A-ACAT	25	Pass

Mellanox 25 GbE MCX4121A RNIC to Mellanox 25 GbE MCX4121A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 04



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	OCe14401B-UX	APFN2-AOC-002	MSX1012B-2BFS	MCX314A-BCCT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Advanced Photonics, Inc	4x	100	N/A	Fiber - Active	QSFP		APFN2-AOC-100			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Molex Incorporated	4x	30	NA	Fiber - Active	QSFP		106411-1030			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Voelx	4x	0.5	30	Copper - Unequalized	QSFP		VAHS-30-0443			40	Pass
Voelx	4x	3	30	Copper - Unequalized	QSFP		VAHS-30-0444			40	Pass
Voelx	4x	4	28	Copper - Unequalized	QSFP	VAHS-28-0406	40	Pass			
Voelx	4x	5	26	Copper - Unequalized	QSFP	VAHS-26-0283	40	Pass			
Voelx	4x	1	30	Copper - Unequalized	QSFP	VAHS-30-0296	40	Pass			
Voelx	4x	2	28	Copper - Unequalized	QSFP	VAHS-28-0437	40	Pass			
Voelx	4x	3	26	Copper - Unequalized	QSFP	VAHS-26-0205	40	Pass			
Voelx	4x	4	25	Copper - Unequalized	QSFP	VAHS-25-0002	40	Pass			

Emulex OCe14401B RNIC to Mellanox MSX1012B Switch to Mellanox MCX314A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 04



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Volex	4x	1	30	Copper - Unequalized	QSFP28	OCe14401B-UX	VAHS-30-0530	MSX1012B-2BFS	MCX314A-BCCT	40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Emulex OCe14401B RNIC to Mellanox MSX1012B Switch to Mellanox MCX314A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 05



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	OCe14401B-UX	APFN2-AOC-002	MSX6036G-2SFS	MCX354A-FCBT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Advanced Photonics, Inc	4x	100	N/A	Fiber - Active	QSFP		APFN2-AOC-100			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Molex Incorporated	4x	30	NA	Fiber - Active	QSFP		106411-1030			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Volex	4x	0.5	30	Copper - Unequalized	QSFP		VAHS-30-0443			40	Pass
Volex	4x	3	30	Copper - Unequalized	QSFP		VAHS-30-0444			40	Pass
Volex	4x	4	28	Copper - Unequalized	QSFP		VAHS-28-0406			40	Pass
Volex	4x	5	26	Copper - Unequalized	QSFP		VAHS-26-0283			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP	VAHS-30-0296	40	Pass			
Volex	4x	2	28	Copper - Unequalized	QSFP	VAHS-28-0437	40	Pass			
Volex	4x	3	26	Copper - Unequalized	QSFP	VAHS-26-0205	40	Pass			
Volex	4x	4	25	Copper - Unequalized	QSFP	VAHS-25-0002	40	Pass			

Emulex OCe14401B RNIC to Mellanox MSX6036G Switch to Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 05



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Volex	4x	1	30	Copper - Unequalized	QSFP28	OCe14401B-UX	VAHS-30-0530	MSX6036G-2SFS	MCX354A-FCBT	40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Emulex OCe14401B RNIC to Mellanox MSX6036G Switch to Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 06



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Emulex RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	OCe14401B-UX	APFN2-AOC-002	MSN2700-CS2F	MCX4131A-BCAT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Emulex OCe14401B RNIC to Mellanox MSN2700 Switch to Mellanox MCX4131A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 07



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	MCX416A-BCAT	APFN2-AOC-002	MSX6036G-2SFS	MCX354A-FCCT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Centera Photonics	4x	10	NA	Fiber - Active	QSFP28		E04025QABL010			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			40	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			40	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			40	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			40	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			40	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			40	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			40	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			40	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass

Mellanox MCX416A RNIC to Mellanox MSX6036G Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 07



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Volex	4x	1	30	Copper - Unequalized	QSFP28	MCX416A-BCAT	VAHS-30-0530	MSX6036G-2SFS	MCX354A-FCCT	40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Mellanox MCX416A RNIC to Mellanox MSX6036G Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 10



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	MCX4131A-BCAT	APFN2-AOC-002	MSX6036G-2SFS	MCX354A-FCCT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Centera Photonics	4x	10	NA	Fiber - Active	QSFP28		E04025QABL010			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			40	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			40	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			40	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			40	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			40	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			40	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			40	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			40	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass

Mellanox MCX4131A RNIC to Mellanox MSX6036G Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 10



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Volex	4x	1	30	Copper - Unequalized	QSFP28	MCX4131A-BCAT	VAHS-30-0530	MSX6036G-2SFS	MCX354A-FCCT	40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Mellanox MCX4131A RNIC to Mellanox MSX6036G Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 11



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	MCX354A-FCCT	APFN2-AOC-002	MSN2700-CS2F	MCX4131A-GCAT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			40	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			40	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			40	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			40	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			40	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			40	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			40	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			40	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass
Net Miles	4x	30	NA	Fiber - Active	QSFP		NA56-R130-8QCX			40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Voelx	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			40	Pass

Mellanox MCX354A RNIC to Mellanox MSN2700 Switch and Mellanox MCX4131A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 11



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Volex	4x	2	28	Copper - Unequalized	QSFP28	MCX354A-FCCT	VAHS-28-0455	MSN2700-CS2F	MCX4131A-GCAT	40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Mellanox MCX354A RNIC to Mellanox MSN2700 Switch and Mellanox MCX4131A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 13



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	MCX354A-FCBT	APFN2-AOC-002	MSX1012B-2BFS	MCX354A-FCCT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Advanced Photonics, Inc	4x	100	N/A	Fiber - Active	QSFP		APFN2-AOC-100			40	Pass
Finisar	4x	100	N/A	Fiber - Active	QSFP		FCBN410QB1CX0			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			40	Pass
Molex Incorporated	4x	30	NA	Fiber - Active	QSFP		106411-1030			40	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			40	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			40	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			40	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			40	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			40	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			40	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			40	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass

Mellanox MCX354A RNIC to Mellanox MSX1012B Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 13



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Net Miles	4x	30	NA	Fiber - Active	QSFP	MCX354A-FCBT	NA56-R130-8QCX	MSX1012B-2BFS	MCX354A-FCCT	40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Volex	4x	0.5	30	Copper - Unequalized	QSFP		VAHS-30-0443			40	Pass
Volex	4x	3	30	Copper - Unequalized	QSFP		VAHS-30-0444			40	Pass
Volex	4x	4	28	Copper - Unequalized	QSFP		VAHS-28-0406			40	Pass
Volex	4x	5	26	Copper - Unequalized	QSFP		VAHS-26-0283			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP		VAHS-30-0296			40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP		VAHS-28-0437			40	Pass
Volex	4x	3	26	Copper - Unequalized	QSFP		VAHS-26-0205			40	Pass
Volex	4x	4	25	Copper - Unequalized	QSFP		VAHS-25-0002			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Mellanox MCX354A RNIC to Mellanox MSX1012B Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet Interop 14



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Advanced Photonics, Inc	4x	2	N/A	Fiber - Active	QSFP	MCX314A-BCCT	APFN2-AOC-002	MSX6036G-2SFS	MCX314A-BCCT	40	Pass
Advanced Photonics, Inc	4x	10	N/A	Fiber - Active	QSFP		APFN2-AOC-010			40	Pass
Advanced Photonics, Inc	4x	20	N/A	Fiber - Active	QSFP		APFN2-AOC-020			40	Pass
Advanced Photonics, Inc	4x	40	N/A	Fiber - Active	QSFP		APFN2-AOC-040			40	Pass
Advanced Photonics, Inc	4x	50	N/A	Fiber - Active	QSFP		APFN2-AOC-050			40	Pass
Advanced Photonics, Inc	4x	100	N/A	Fiber - Active	QSFP		APFN2-AOC-100			40	Pass
Finisar	4x	100	N/A	Fiber - Active	QSFP		FCBN410QB1CX0			40	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			40	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			40	Pass
Mellanox	4x	3	NA	Fiber - Active	QSFP		MC220731V-003			40	Pass
Mellanox	4x	30	NA	Fiber - Active	QSFP		MC220731V-030			40	Pass
Mellanox	4x	50	NA	Fiber - Active	QSFP		MC220731V-050			40	Pass
Mellanox	4x	100	NA	Fiber - Active	QSFP		MC220731V-100			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MCP1600-E00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MCP1600-E001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MCP1600-E01A			40	Pass
Mellanox	4x	2	28	Copper - Unequalized	QSFP		MCP1600-E002			40	Pass
Mellanox	4x	2.5	26	Copper - Unequalized	QSFP		MCP1600-E02A			40	Pass
Mellanox	4x	3	26	Copper - Unequalized	QSFP		MCP1600-E003			40	Pass
Mellanox	4x	3.5	24	Copper - Unequalized	QSFP		MCP1600-E03A			40	Pass
Mellanox	4x	0.5	30	Copper - Unequalized	QSFP		MC2207130-00A			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP		MC2207130-001			40	Pass
Mellanox	4x	1.5	30	Copper - Unequalized	QSFP		MC2207130-0A1			40	Pass
Mellanox	4x	2	30	Copper - Unequalized	QSFP		MC2207130-002			40	Pass
Mellanox	4x	2.5	28	Copper - Unequalized	QSFP		MC2207128-0A2			40	Pass
Mellanox	4x	3	28	Copper - Unequalized	QSFP		MC2207128-003			40	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			40	Pass
Molex Incorporated	4x	30	NA	Fiber - Active	QSFP		106411-1030			40	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			40	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			40	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			40	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			40	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			40	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			40	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			40	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			40	Pass
Net Miles	4x	2	NA	Fiber - Active	QSFP		NA56-R102-8QCX			40	Pass
Net Miles	4x	10	NA	Fiber - Active	QSFP		NA56-R110-8QCX			40	Pass

Mellanox MCX314A RNIC to Mellanox MSX6036G Switch and Mellanox MCX314A RNIC





IBTA RoCE Interoperability List

40 Gigabit Ethernet

Interop 14



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Net Miles	4x	30	NA	Fiber - Active	QSFP	MCX314A-BCCT	NA56-R130-8QCX	MSX6036G-2SFS	MCX314A-BCCT	40	Pass
Net Miles	4x	100	NA	Fiber - Active	QSFP		NA56-R1L1-8QCX			40	Pass
Volex	1x	0.5	30	Copper - Unequalized	QSFP		VAHS-30-0443			40	Pass
Volex	4x	3	30	Copper - Unequalized	QSFP		VAHS-30-0444			40	Pass
Volex	4x	4	28	Copper - Unequalized	QSFP		VAHS-28-0406			40	Pass
Volex	4x	5	26	Copper - Unequalized	QSFP		VAHS-26-0283			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP		VAHS-30-0296			40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP		VAHS-28-0437			40	Pass
Volex	4x	3	26	Copper - Unequalized	QSFP		VAHS-26-0205			40	Pass
Volex	4x	4	25	Copper - Unequalized	QSFP		VAHS-25-0002			40	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			40	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			40	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			40	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			40	Pass

Mellanox MCX314A RNIC to Mellanox MSX6036G Switch and Mellanox MCX314A RNIC





IBTA RoCE Interoperability List

50 Gigabit Ethernet Interop 08



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Centera Photonics	4x	10	NA	Fiber - Active	QSFP28	MCX4131A-GCAT	E04025QABL010	MSN2700-CS2F	MCX354A-FCBT	50	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			50	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			50	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			50	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFS1200-C005			50	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFA1A00-C005			50	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			50	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			50	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			50	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			50	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			50	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			50	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			50	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			50	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			50	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			50	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			50	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			50	Pass

Mellanox MCX4131A RNIC to Mellanox MSN2700 Switch and Mellanox MCX354A RNIC





IBTA RoCE Interoperability List

50 Gigabit Ethernet Interop 12



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Centera Photonics	4x	10	NA	Fiber - Active	QSFP28	MCX414A-GCAT	E04025QABL010	MSN2700-CS2F	MCX4131A-GCAT	50	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			50	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			50	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			50	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFS1200-C005			50	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFA1A00-C005			50	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			50	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			50	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			50	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			50	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			50	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			50	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			50	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			50	Pass
Voilex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			50	Pass
Voilex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			50	Pass
Voilex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			50	Pass
Voilex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			50	Pass

Mellanox MCX414A RNIC to Mellanox MSN2700 Switch and Mellanox MCX4131A RNIC





IBTA RoCE Interoperability List

100 Gigabit Ethernet

Interop 01



Company	4x 12x	Length Meters	AWG	Equalization	Connector Type	Mellanox RoCE Card #1	Cable Under Test	Mellanox Switch	Mellanox RoCE Card #2	Link Speed	Interop Result
Centera Photonics	4x	10	NA	Fiber - Active	QSFP28	MCX416A-CCAT	E04025QABL010	MSN2700-CS2F	MCX416A-CCAT	100	Pass
Fujitsu Component Limited	4x	5	NA	Fiber - Active	QSFP28		FPD-202R008-05/6			100	Pass
Fujitsu Component Limited	4x	100	NA	Fiber - Active	QSFP28		FPD-202R008-A0/6			100	Pass
Mellanox	4x	1	30	Copper - Unequalized	QSFP28		MCP1600-C001			100	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFS1200-C005			100	Pass
Mellanox	4x	5	NA	Fiber - Active	QSFP28		MFA1A00-C005			100	Pass
Molex Incorporated	4x	0.5	32	Copper - Unequalized	QSFP28		100297-1015			100	Pass
Molex Incorporated	4x	0.5	30	Copper - Unequalized	QSFP28		100297-1051			100	Pass
Molex Incorporated	4x	1	30	Copper - Unequalized	QSFP28		100297-1101			100	Pass
Molex Incorporated	4x	2	32	Copper - Unequalized	QSFP28		100297-1002			100	Pass
Molex Incorporated	4x	3	30	Copper - Unequalized	QSFP28		100297-1301			100	Pass
Molex Incorporated	4x	3	26	Copper - Unequalized	QSFP28		100297-3301			100	Pass
Molex Incorporated	4x	3.5	28	Copper - Unequalized	QSFP28		100297-9205			100	Pass
Molex Incorporated	4x	4	28	Copper - Unequalized	QSFP28		100297-9206			100	Pass
Volex	4x	1	30	Copper - Unequalized	QSFP28		VAHS-30-0530			100	Pass
Volex	4x	2	28	Copper - Unequalized	QSFP28		VAHS-28-0455			100	Pass
Volex	4x	2	26	Copper - Unequalized	QSFP28		VAHS-26-0305			100	Pass
Volex	4x	3	24	Copper - Unequalized	QSFP28		VAHS-24-0312			100	Pass

Mellanox MCX416A RNIC to Mellanox MSN2700 Switch and Mellanox MCX416A RNIC

