



Setting the QL41xxx Link Speed Using QCS CLI

1 Products Affected

This application note applies to Marvell[®] FastLinQ[®] QL41*xxx* adapters that need to have a fixed link speed.

2 **Prerequisites**

To set a fixed link speed, you need:

- One or more QL41*xxx* adapters
- The latest version of the firmware (Flash kit)
- The operating system (OS) driver
- QLogic[®] Control Suite CLI (QCS CLI), located on the Marvell Web site at: <u>https://www.marvell.com/hpe/documents.jsp</u>

Scroll down to the Utility Software section; click the appropriate link to download QCS CLI.

3 Overview

Following is a high-level description of two ways to set the link speed; see Sections 4 and 5 for detailed instructions.

Method 1 (MBA Config File)

- 1. Save the adapter's *MBA config* structure to an XML file.
- 2. In the XML file, edit the link speed setting.
- 3. Upload the adapter with the new *MBA config* file.
- 4. Disable smart autonegotiation (SmartAN[™]) mode (vendor-enhanced speed negotiation).
- 5. Reboot your system.



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Method 2 (QCS CLI)

Issue commands in QCS CLI noninteractive mode to disable SmartAN mode and set a fixed link speed.

Setting the Link Speed with the MBA Config File

To set a fixed link speed on the QL41xxx adapter:

1. Use the available utilities to identify the QL41*xxx* adapters in the system. Note the PCIe[®] address.

For example, issue the Linux[®] **#1spci** command. Following is a sample output.

80:03.3 PCI bridge: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 PCI Express Root Port 3 (rev 02) 80:04.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 0 (rev 02) 80:04.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 1 (rev 02) 80:04.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 1 (rev 02) 80:04.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 2 (rev 02) 80:04.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 3 (rev 02) 80:04.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 3 (rev 02) 80:04.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 3 (rev 02) 80:04.6 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 5 (rev 02) 80:04.6 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 7 (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 7 (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map, VTd Misc, System Management (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map, VTd Misc, System Management (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RAS, Control Status and Global Errors (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 81:00.1 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 81:00.1 Ethernet controller: Ologic Corp. Device 8070 (rev 02) 81:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 81:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 81:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 81:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link	Including the second second	EST DELVAGE, THEFT SOLVATION OF A FAILER VALAEVELED VALAEVELED F. EST	
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<pre>80:04.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 5 (rev 02) 80:04.6 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 6 (rev 02) 80:04.7 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 7 (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VId Misc. System Management (rev 02) 80:05.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VId Misc. System Management (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VId Misc. System Management (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VId Misc. System Management (rev 02) 80:05.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RS, Control Status and Global Errors (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RS, Control Status and Global Errors (rev 02) 80:05.3 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 81:00.0 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 81:00.1 Ethernet controller: Glogic Corp. Device 8070 (rev 02) 81:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 81:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 1 (rev 02) 81:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 81:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 81:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 81:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:00.9 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:00.9 System peripheral: Intel Corporation Xeon E7 v3/X</pre>	80:04.4	System peripheral: Intel Corporation Xeon E/ v3/Xeon E5 v3/Core	17 DMA Channel 4 (rev 02)
<pre>80:04.6 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 6 (rev 02) 80:04.7 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 7 (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VTd Misc. System Management (rev 02) 80:05.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RAS, Control Status and Global Errors (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RAS, Control Status and Global Errors (rev 02) 81:00.1 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 94:00.1 Ethernet controller: Ologic Corp. Device 8070 (rev 02) 94:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 95 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (1 Monitoring (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 (0 1 Monitoring (rev 02) 97:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 (1 Monitoring (rev 02) 98:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 (0 1 Monitoring (rev 02) 99:09.3 System Peripheral: Intel Corporation Xeon E7 v3/X</pre>	80:04.5	System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core	17 DMA Channel 5 (rev 02)
<pre>80:094.7 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 DMA Channel 7 (rev 02) 80:095.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Address Map. VTd Misc, System Management (rev 02) 80:095.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:095.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:095.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:095.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 AS, Control Status and Global Errors (rev 02) 80:095.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 IO APIC (rev 02) 84:00.0 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 84:00.1 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 84:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 84:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:09.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 O</pre>	80:04.6	System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core	17 DMA Channel 6 (rev 02)
<pre>a0:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 Address Map, VId Misc, System Management (rev 02) 80:05.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 Address Map, VId Misc, System Management (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 RAS, Control Status and Global Errors (rev 02) 80:05.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 RAS, Control Status and Global Errors (rev 02) 80:05.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 RAS, Control Status and Global Errors (rev 02) 84:00.0 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 84:00.0 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) 84:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 (rev 02) 84:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 (rev 02) 84:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1 (rev 02) 84:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1 (rev 02) 80:05.4 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon</pre>	80.04 7	System peripheral: Intel Corporation Yeon E7 v3/Yeon E5 v3/Core	17 DMA Chappel 7 (rev 02)
<pre>B0:00:0 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 Address Map. V1d MiSc. System Management (PeV 02) B0:05:2 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 Address Map. V1d MiSc. System Management (PeV 02) B0:05:4 PIC: Intel Corporation Xcon E7 V3/Acon E5 V3/Core 17 RAS, Control Status and Global Errors (rev 02) B1:00:1 Ethernet controller: Qlogic Corp. Device 8070 (rev 02) B1:00:0 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:0 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:0 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 1 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 1 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 1 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 1 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 1 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System Peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 QPI Link 0 (rev 02) F1:00:3 System Peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) F1:00:5 System Peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) F1:00:5 System Peripheral: Intel Corporation Acon E7 V3/Acon E5 V3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) F1:00:5 System Peripheral: Intel Corporation A</pre>	00.05.0	System peripheral. Intel corporation Xeen E7 V9/Xeen E5 V9/Core	17 Dia character (17 Mar Contraction Contraction (19 CO)
80:05.1 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Hot Plug (rev 02) 80:05.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RS, Control Status and Global Errors (rev 02) 80:05.4 PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RS, Control Status and Global Errors (rev 02) 84:00.1 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 84:00.1 Ethernet controller: Ologic Corp. Device 8070 (rev 02) 84:00.3 Ethernet controller: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 0 (rev 02) 84:00.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 1 (rev 02) 84:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 OPI Link 1 (rev 02) 84:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 honitoring (rev 02) 84:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 85:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 85:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 85:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 85:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 85:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 86:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 87:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 89:00 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:00 System Peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 OPI Link 0 & 1 Monitoring (rev 02) 80:00 Sys	80:05.0	System peripheral: intel Corporation Xeon E/ V3/Xeon ES V3/Core	1/ Address Map, Vid_Misc, System Management (rev U2)
<pre>80:05.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 RAS, Control Status and Global Errors (rev 02) 84:00.1 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 14:00.1 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.1 Performance counters: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 Performance counters: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 Performance counters: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitorin</pre>	80:05.1	System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core	17 Hot Plug (rev 02)
80:05.4 Pic: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 I/O APIC (rev 02) 84:00.0 Ethermet controller: Qlogic Corp. Device 8070 (rev 02) 84:00.1 Ethermet controller: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 84:00.1 Ethermet controller: Qlogic Corp. 20:00 84:00.1 Ethermet controller: Qlogic Corp. 20:00 84:00.1 Ethermet Corporation Xeon E7 v3/Xeon E5 v3/Core 17 Device 10 (rev 02) 84:00 Ethermet controller: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 84:00 Ethermet Corp. 20:00 84:00 Ethermet Corp. 20:	80:05.2	System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core	17 RAS. Control Status and Global Errors (rev 02)
94:00.0 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 94:00.1 Ethernet controller: QLogic Corp. Device 8070 (rev 02) 17:08.0 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:08.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 0 (rev 02) 17:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 17:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 17:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 QPI Link 1 (rev 02) 17:09.3 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.1 Performance counters: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 Performance counters: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.2 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 15:00.5 System Peripheral: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 R3 QPI Link 0 & 1 Monitoring (rev 02) 15:00.5 System Peripheral: Intel Corporation Xeon E7 v3/Xeon E5	80.05 4	PIC: Intel Corporation Xeon E7 v3/Xeon E5 v3/Core 17 I/O APIC (rev (92)
14:00.1 Ethermat controller: QLogic Corp. Device 0070 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 QPI Link 1 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R0 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R0 QPI Link 0 6 Monitoring (rev 02) 17:00.2 Performance Counters: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 6 1 Monitoring (rev 02) 17:00.2 Performance I: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 6 1 Monitoring (rev 02) 17:00.5 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 17:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17 R3 QPI Link 0 (rev 02) 10:00.0 System Peripheral: Intel Corporation Acon E7 v3/Acon E5 v3/Core 17	04.00.0	Ethermotic controlling of and a Comp. Doudles 0020 (new 02)	
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IT:00.0 System peripheral; intel corporation Xeon E/ V3/Xeon E5 V3/Core 1/ Unicast Registers (rev 02)	55.00.2	The formation of the state of t	The set of
	TT:0C.0	System peripheral: Intel Corporation Xeon E7 V37Xeon E5 V37Core	1/ Unicast Registers (rev 02)

The PCIe addresses for the QL41xxx adapters at location 84:00 are 84:00.0 and 84:00.01.

- 2. Issue a command in QCS CLI noninteractive mode to save MBA Config to an XML file. For example:
 - # cd /opt/Qlogic_Corporation/QCS

```
# ./QCScli -t phyports -f BDF -i 84:00.00 "bootcfg -t MBA -o save
defaultbcfg.xml"
```

This command uses Bus: Device. Function PCIe addressing to select the adapter.

The PCIe adapter address is 84:00.00.

The name of the XML file is not important.

3. Copy the original XML file to one that will be modified. For example:

cp defaultbcfg.xml 25Gbcfg.xml

- 4. Use your editor of choice to modify the .xml file. For example:
 - # Open gedit 25Gbcfg.xml

Following is a sample output.

Open - FA	25Gbcfg.xml /opt/QLogic_Corporation/QCS	Save = - ×
Interpretation and the second sec	oding="UTF-8"?> Li= <version>30.0.75.0</version> =C >PXE <hidesetupprompt>Disabl yStroke>Ctrl-S<bannermes inkSpeed>AutoNeg{Pre-bootWake> >Disabled<vlanid>0</vlanid><boo figuration></boo </bannermes </hidesetupprompt>)ptionROM>Enabled <br led <br ssageTimeout>15 <br onLAN>DisabledotRetryCount>0 </th



5. Change the adapter parameter <LinkSpeed>AutoNeg</LinkSpeed> to the desired fixed speed.

Do not set a value that is not supported by the adapter model.

To configure the adapter for fixed 10Gbps: <LinkSpeed>10G</LinkSpeed>

To configure the adapter for fixed 25Gbps: <LinkSpeed>25G</LinkSpeed>

Following is a sample output.

Open - Fl	25Gbcfg.xml /opt/QLogic_Corporation/QCS	Save = - ×					
<pre> <pre></pre> <pre><!--</td--></pre></pre>							
BootRetryCount> <th>cion></th> <th></th>	cion>						

- 6. Save the file.
- 7. In QCS CLI noninteractive mode, program the adapter's flash device with the contents of the new MBA Config file. For example:

./QCScli -t phyports -f BDF -i 84:00.00 "bootcfg -t MBA -o restore 25Gbcfg.xml"

For the 25Gbps setting, the default forward error correction (FEC) mode should be RS-FEC. If that is the mode you want, no further action is needed. Check the link partner to confirm that both sides have the same FEC mode configured. RS-FEC is the preferred FEC mode for 25G links.

At forced 10G mode, default FEC mode is disabled.

8. (Optional) Repeat Step 7 for additional ports on the adapter. For example:

```
./QCScli -t phyports -f BDF -i 84:00.01 "bootcfg -t MBA -o restore 25Gbcfg.xml"
```

- 9. Disable the adapter's SmartAN mode.
 - a. Do one of the following:
 - Issue a command in QCS CLI to display all the active advanced parameters where SmartAN mode is enabled. For example:

./QCScli -t phyports -f BDF -I 84:00.00 "cfg advanced"

Following is a sample output.

```
QLogic Control Suite Command Line Interface Utility for Linux
v30.0.75.0
..
Advanced
------
Smart An Mode: 1
```

■ Issue a command in QCS CLI is display only the current SmartAN mode. For example:

./QCScli -t phyports -f BDF -i 84:00.00 "cfg advanced \"Smart An Mode\""



Following is a sample output.

b. Issue a command to disable SmartAN mode. For example:

./QCScli -t phyports -f BDF -i 84:00.00 "cfg advanced \"Smart An Mode=0\""

Following is a sample output.

QLogic Control Suite Command Line Interface Utility for Linux v30.0.75.0 ... You must restart your computer for the new settings to take effect.

10. Reboot your system.

5

Setting the Link Speed with QCS CLI Noninteractive Mode Commands

To set a fixed link speed on the QL41xxx adapter:

1. Issue commands in QCS CLI noninteractive mode to disable SmartAN mode and set the adapter's link speed. Following are some examples:

```
# ./QCScli -t phyports -f BDF -i 84:00.00 "cfg advanced \"Smart An Mode=0\""
# ./QCScli -t phyports -f BDF -i 84:00.00 "cfg advanced \"NVM Speed=10G\""
```

```
# ./QCScli -t phyports -f BDF -i 84:00.01 "cfg advanced \"Smart An Mode=0\""
# ./QCScli -t phyports -f BDF -i 84:00.01 "cfg advanced \"NVM Speed=10G\""
```

```
2. Reboot the system.
```



Document Revision History

Revision A, October 31, 2017

Revision B, August 17, 2019

Revision C, April 20, 2021

Changes

Update to new Marvell logo/template.



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