

# Chelsio T6 (25/100G) Adapters Interop Matrix

## Using Chelsio Latest Software Release

Chelsio T6 Ethernet Unified Wire adapters are optimized for storage, cloud computing, NFV, HPC, virtualization and other datacenter networking applications. They offer all the features currently supported by Chelsio T5 based 10/40GbE adapters, and in addition, add support for integrated offload of IPsec, TLS/SSL, DTLS and SMB 3.X crypto.

### Supported Adapters

<b>T6225-CR</b>	1/10/25G dual-port PCIe 3.0 x8 Low Profile Unified Wire Adapter
<b>T6225-LL-CR</b>	1/10/25G dual-port PCIe 3.0 x8 Low Latency, Low Profile Unified Wire Adapter
<b>T6225-SO-CR</b>	1/10/25G dual-port PCIe 3.0 x8 Low Profile Converged Network Adapter
<b>T6225-OCF</b>	1/10/25G dual-port PCIe 3.0 x8 Converged Network Adapter for OCP
<b>T6425-CR</b>	1/10/25G quad-port PCIe 3.0 x8 Low Profile Unified Wire Adapter
<b>T62100-CR</b>	40/50/100G dual-port PCIe 3.0 x16 Half Size Unified Wire Adapter
<b>T62100-LP-CR</b>	40/50/100G dual-port PCIe 3.0 x16 Low Profile Unified Wire Adapter
<b>T62100-SO-CR</b>	40/50/100G dual-port PCIe 3.0 x16 Low Profile Server Offload Adapter
<b>T61100-OCF</b>	40/50/100G single-port PCIe 3.0 x16 Server Offload Adapter for OCP

Latest software bits for above adapters are available at: <https://service.chelsio.com/>

### Supported Cables, Optical Modules, OSes, Switches and Platforms

Chelsio T6 adapters are tested and verified with the following cables, optical modules, operating systems, switches and server platforms. Chelsio adapters are cable and switch agnostic and expected to work with any IEEE Standards compliant 25/100G components. It is always recommended to use Chelsio branded cables and optical modules to make sure there are no compatibility issues. For any assistance please contact us at [support@chelsio.com](mailto:support@chelsio.com).

### Supported Cables

<b>TAPCABLE-1M/3M/5M</b>	10G, SFP+-to-SFP+ Twinax/DAC Passive cable
<b>TAPCABLE28-1M/2M/3M</b>	25G, SFP28-to-SFP28 Twinax/DAC Passive cable
<b>QTAPCABLE28-1M/2M/3M</b>	100G, QSFP28-to-QSFP28 Twinax Passive cable
<b>QTAPCABLE-1M/3M/5M</b>	40G, QSFP+-to-QSFP+ Twinax Passive cable
<b>OCTTAPCABLE3M</b>	Octopus QSFP+-to-4xSFP+ Twinax Passive cable
<b>SRCABLE3M/LRCABLE3M</b>	10/25G short/long reach fiber optic cable
<b>QSRCABLE10M</b>	40/100G short reach fiber optic cable
<b>AOC-QSFP28-CABLE-10M</b>	100G QSFP28-to-QSFP28 short reach Active optical cable
<b>AOC-SFP28-CABLE-10M</b>	25G SFP28-to-SFP28 short reach Active optical cable
<b>OCTCABLE5M-SR</b>	Octopus QSFP+-to-4xSFP+ short reach fiber optic cable

### Supported Optical Modules

<b>SM10G-SR/LR</b>	10G short/long reach SFP optical module
<b>SM25G-SR/LR</b>	25G short/long reach SFP28 optical module
<b>SM40G-SR/LR</b>	40G short/long reach QSFP optical module
<b>SM100G-SR/LR</b>	100G short/long reach QSFP28 optical module

### Supported Operating Systems

<b>Linux</b>	RHEL 6.9/6.10/7.5/7.6, SLES 12 SP3, SLES 15, Ubuntu 16.04.4/18.04.1
<b>MS Windows</b>	Server 2012, Server 2012 R2, Server 2016, Server 2019, 10 Client
<b>VMware</b>	ESXi 6.5, 6.5 U1, 6.7, 6.7 U1
<b>FreeBSD</b>	11.2 and 12.0
<b>MAC OS X</b>	10.11, 10.12, 10.13
<b>Linux Kernel</b>	v4.9, v4.14

### Supported Switch Vendors (Series top-of-rack switches)

<b>Dell Z9100-ON</b>
<b>Arista 7060X/7060CX2 32S/7160 48YC6/7260CX-64/7280SR2 48YC6/AR ALH</b>
<b>Juniper QFX5200/QFXS200 32C/QFX100002 36Q/QFX100002 72Q</b>
<b>Cisco Nexus 3132Q, 3232C, C9332PQ</b>
<b>Huawei SmartIO T/SmartIO 2</b>
<b>Marvell X5113/X5123/X5121</b>
<b>Spirent DX3 100GQ T12/FX3 100GQ T2/MX3 100GQ T2/FX3 25GD 58</b>
<b>Broadcom 56850 Trident2</b>

### Supported Server Platforms

Vendor	Motherboard Model / Chipset	BIOS	CPU
<b>SuperMicro</b>	X10SRA-F Intel C610/X99	2.0	Intel(R) Xeon(R) CPU E5-1620 v4 @ 3.50GHz
	X10DRi Intel C610/X99	2.1	Intel(R) Xeon(R) CPU E5-2637 v3 @ 3.50GHz
	X10DRG-Q Intel C610/X99	2.0	Intel(R) Xeon(R) CPU E5-2687W v4 @ 3.00GHz
	X9SRE/X9SRE-3F/X9SRi/X9SRi-3F Intel C600/X79	3.0a	Intel(R) Xeon(R) CPU E5-1620 0 @ 3.60GHz
	H8QGL	3.5	AMD Opteron(tm) Processor 6278 2.2GHz
<b>Dell</b>	T710 Intel 5520	6.0.7	Intel(R) Xeon (R) CPU E5530 @2.40GHz
	T5600 Intel C600	A12	Intel(R) Xeon(R) E5-2620 0 @2.00GHz
<b>ASUS</b>	P5KPL Intel G31/ICH7	1003	Intel(R) Core (TM)2 DUO CPU E6750 @2.566 GHz
<b>IBM</b>	Power 8		Turismo SCM @ 3 GHz
<b>Lenovo</b>	X3650 M4 Intel C602J	1.50	Intel(R) Xeon(R) CPU E5-2603 0 @1.88GHz
<b>Qualcomm</b>	QDF2400 DP Arm	5.13	Armv8 CPU @ 2500 MHz
<b>AMD</b>	EPYC 7551	1.0a	AMD EPYC 7551 CPU @ 2000 MHz

**Note:** Chelsio adapters support auto-negotiation but we have seen that few 100G switches still have open bugs around this functionality. In any case, if you face a link issue after connecting Chelsio cards to a 25/100G switch port, please turn off auto-negotiation and FEC for that specific switch port. For any assistance please contact support at [support@chelsio.com](mailto:support@chelsio.com).