

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

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

Supported Cables

TAPCABLE-1M/3M/5M	10G, SFP+-to-SFP+ Twinax/DAC Passive cables
TAPCABLE28-1M/2M/3M	25G, SFP28-to-SFP28 Twinax/DAC Passive cables
QTAPCABLE28-1M/2M/3M	100G, QSFP28-to-QSFP28 Twinax Passive cables
QTAPCABLE-1M/3M/5M	40G, QSFP+-to-QSFP+ Twinax Passive cables
SRCABLE3M/LRCABLE3M	10/25G short/long reach fiber optic cables
QSRCABLE10M	100G QSFP28-to-QSFP28 short reach fiber optic cable
QSRCABLE10M	40G QSFP+-to-QSFP+ short reach fiber optic cable
AOC-QSFP28-CABLE-10M	100G QSFP28-to-QSFP28 short reach Active optical cable
AOC-SFP28-CABLE-10M	25G SFP28-to-SFP28 short reach Active optical cable

Supported Optical Modules

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

Supported Operating Systems

Linux	RHEL 6.8/6.9/7.3/7.4, SLES11 SP4, SLES 12 SP2/SP3, Ubuntu 14.04.4/16.04.1
MS Windows	Server 2012, Server 2012 R2, Server 2016, 10 AU Client
VMware	ESXi 6.5, 6.5 U1
FreeBSD	10.3 and 11.1
MAC OS X	10.11, 10.12, 10.13
Linux Kernel	v4.9, v4.14

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

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

Supported Server Platforms

Vendor	Motherboard Model / Chipset	BIOS	CPU
SuperMicro	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
Dell	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
ASUS	P5KPL Intel G31/ICH7	1003	Intel(R) Core (TM)2 DUO CPU E6750 @2.566 GHz
IBM	Power 8		Turismo SCM @ 3 GHz
Lenovo	X3650 M4 Intel C602J	1.50	Intel(R) Xeon(R) CPU E5-2603 0 @1.88GHz
Qualcomm	QDF2400 DP Arm	5.13	Armv8 CPU @ 2500 MHz
AMD	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.