

# Chelsio Unified Wire Adapter Product Selection Guide



## Single Adapter with concurrent Multi-Protocol Operation

<b>Chelsio P/N</b>	<b>T62100-CR</b>	<b>T62100-LP-CR</b>	<b>T62100-SO-CR</b>	<b>T61100-OCP</b>	<b>T6225-OCP</b>	<b>T6225-SO-CR</b>	<b>T6225-LL-CR</b>
<b>Ports</b>	2x40/50/100G			1x40/50/100G	2x1/10/25G		
<b>Connector Type</b>	QSFP28				SFP28		
<b>Host Interface</b>	PCIe Gen3 x16				PCIe Gen3 x8		
<b>Form Factor</b>	Half Size	Low Profile		OCP		Low Profile	
<b>Concurr. Conn.</b>	32k		256 → 1k				32k
<b>Power (Typical)</b>	22W	19W	16W	18W	15W	10W	16W
<b>Airflow</b>	200 LFM (Linear Feet Per minute)						
<b>Chelsio P/N</b>	<b>T580-OCP</b>	<b>T580-SO-CR</b>	<b>T580-LP-CR</b>	<b>T580-CR</b>	<b>T6425-CR</b>	<b>T6225-CR</b>	
<b>Ports</b>	2x40G				4x1/10/25G	2x1/10/25G	
<b>Connector Type</b>	QSFP+ Cage				SFP28		
<b>Host Interface</b>	PCIe Gen3 x8						
<b>Form Factor</b>	OCP	Low Profile		Half Size		Low Profile	
<b>Concurr. Conn.</b>	256 → 1k		32k				
<b>Power (Typical)</b>	12W		17W	21W	26W	13W	
<b>Airflow</b>	200 LFM (Linear Feet Per minute)						
<b>Chelsio P/N</b>	<b>T520-OCP</b>	<b>T520-SO-CR</b>	<b>T520-CR</b>	<b>T520-LL-CR</b>	<b>T540-CR</b>	<b>T540-BT</b>	<b>T520-BT</b>
<b>Ports</b>	2x1/10G				4x1/10G	4x100M/1G/10G	2x100M/1G/10G
<b>Connector Type</b>	SFP+ Cage					RJ-45	
<b>Host Interface</b>	PCIe Gen3 x8						
<b>Form Factor</b>	OCP	Low Profile			Half Size		Low Profile
<b>Concurr. Conn.</b>	256 → 1k		32k				
<b>Power (Typical)</b>	9W		12W	16W	16W	26W	20W
<b>Airflow</b>	200 LFM (Linear Feet Per minute)						

### Features

Windows Server 2012-R2 / 2016  
 Windows Storage Spaces Direct (S2D)  
 Windows Azure Stack Private Cloud  
 Windows Network Direct  
 Windows SMB Direct  
 Windows Nano Server  
 Windows Client RDMA  
 Low Latency L2 NIC  
 TCP Offload Engine (TOE)  
 TLS/SSL, DTLS, IPsec, SMB 3.X crypto<sup>1</sup>  
 iSCSI Offload (Initiator and Target)  
 FCoE Offload  
 iWARP RDMA Offload  
 NVMe Over Fabrics  
 NVMe JBOF (Just a Bunch of Flash)  
 GPUDirect RDMA  
 Wire Direct Low Latency Suite  
 SRIOV / Virtualization  
 DPDK / PacketDirect / Netmap  
 OVS / OpenFlow Offload  
 NVGRE / VxLAN/ Geneve  
 Media StreamEngine<sup>2</sup>  
 Traffic Management / DCB  
 Packet Classification  
 Sniffer / Tracer  
 Multi / Single adapter Failover

<sup>1</sup> Supported only on T6 family of adapters

<sup>2</sup> Not supported by SO (Server Offload) adapters

**LL:** Low Latency    **LP:** Low Profile  
**SO:** Server Offload

# Chelsio ASIC, Software and Support Guide



## Unified Wire Controller ASIC

T6 is a highly integrated, hyper-virtualized 1/10/25/40/50/100GbE controller ASIC with full offload support of a complete Unified Wire solution comprising L2 NIC, TOE, iWARP RDMA, iSCSI, FCoE, NVGRE, VxLAN, Filtering, Traffic Analytics, Management, OVS Offload, UOE, DCB and TLS/SSL, DTLS, IPsec, SMB 3.X crypto Offload.

### Ordering Information:

**T6ASIC2100:** T6 Unified Wire Engine, 2x1/10/25/40/50/100G ports, full featured.

**T6ASIC250:** T6 Unified Wire Engine, 2x1/10/25/50G ports, full featured.

**T6ASIC2100-SO:** T6 Server Offload Engine, 2x1/10/25/40/50/100G ports, server offload.

**T6ASIC250-SO:** T6 Server Offload Engine, 2x1/10/25/40/50G ports, server offload.

**T5ASIC40G:** T5 Unified Wire Engine, 2x40G or 4x10G ports, full featured.

**T5ASIC10G:** T5 Unified Wire Engine, 4x10G ports, full featured.

**T5ASIC40G-SO:** T5 Server Offload Engine, 2x40G or 4x10G ports, server offload.

**T5ASIC10G-SO:** T5 Server Offload Engine, 4x10G ports, server offload.

## Unified Manager (UM)

Unified Manager Software centrally manages all Chelsio network adapters across Linux, Mac, Solaris, VMware, FreeBSD and Windows Environments. UM greatly simplifies operations by allowing driver installation, performing network discovery, configuring alerts and other maintenance tasks across multiple nodes and also enabling customers to manage their Chelsio Unified Wire adapters via mobile devices such as iPads and the like.

Unified Manager is installed along with the Unified Wire Software which is available at [service.chelsio.com](http://service.chelsio.com)

## Accessories

### Twinaxial Cables

TAPCABLE1M (1M 10G Passive)

TAPCABLE3M (3M 10G Passive)

TAPCABLE5M (5M 10G Passive)

TAPCABLE28-1M (1M 25G Passive)

TAPCABLE28-2M (2M 25G Passive)

TAPCABLE28-3M (3M 25G Passive)

QTAPCABLE1M (1M 40G QSFP+ Passive, 30 AWG)

QTAPCABLE3M (3M 40G QSFP+ Passive, 30 AWG)

QTAPCABLE5M (5M 40G QSFP+ Passive, 26 AWG)

QTAPCABLE28-1M (1M 100G QSFP28 Passive)

QTAPCABLE28-2M (2M 100G QSFP28 Passive)

QTAPCABLE28-3M (3M 100G QSFP28 Passive)

OCTTAPCABLE3M (3M QSFP+ to 4xSFP+ Passive)

### Optical Cables

SRCABLE3M (3M Short Reach for 10G and 25G)

LRCABLE3M (3M Long Reach for 10G and 25G)

QSRCABLE10M (10M Short Reach for 40G and 100G)

OCTCABLE5M-SR (5M QSFP+ to 4xSFP+ Short Reach)

### Optical Transceivers

SM10G-SR (10G Short Reach SFP+)

SM10G-LR (10G Long Reach SFP+)

SM25G-SR (25G Short Reach SFP28)

SM25G-LR (25G Long Reach SFP28)

SM40G-SR (40G Short Reach QSFP+)

SM40G-LR (40G Long Reach QSFP+)

SM100G-SR (100G Short Reach QSFP28)

SM100G-LR (100G Long Reach QSFP28)

## Support

The standard warranty period for Chelsio hardware products is three years from date of purchase. To contact support, call Chelsio at 408-962-3600, submit a support request via [www.chelsio.com](http://www.chelsio.com) or email support at [support@chelsio.com](mailto:support@chelsio.com). Drivers for Chelsio adapters are available at [service.chelsio.com](http://service.chelsio.com)

### Support Plan:

**SUPPORT-GOLD:** 40 hours extended technical support: 24-hr response/replacement.

**SUPPORT-SILVER:** 4 hours extended technical support: 24-hr response.

## Supported Platforms, Operating Systems and Hypervisors

