# Chelsio Unified Wire Adapter Product Selection Guide

## Single Adapter with concurrent Multi-Protocol Operation

### Chelsio P/N
- **T62100-CR**
- **T62100-LP-CR**
- **T62100-SO-CR**
- **T61100-OCP**
- **T6225-OCP**
- **T6225-SO-CR**
- **T6225-LL-CR**

### Ports
- 2x40/50/100G
- 1x40/50/100G
- 2x1/10/25G

### Connector Type
- QSFP28
- SFP28

### Host Interface
- PCIe Gen3 x16
- PCIe Gen3 x8

### Form Factor
- Half Size
- Low Profile
- OCP
- Low Profile

### Concurr. Conn.
- 32k
- 256 \(\rightarrow\) 1k
- 32k

### Power (Typical)
- 22W
- 19W
- 16W
- 18W
- 15W
- 10W
- 16W

### Airflow
- 200 LFM (Linear Feet Per minute)

### Chelsio P/N
- **T580-OCP**
- **T580-SO-CR**
- **T580-LP-CR**
- **T580-CR**
- **T6425-CR**
- **T6225-CR**

### Ports
- 2x40G
- 4x1/10/25G
- 2x1/10/25G

### Connector Type
- QSFP+ Cage
- SFP28

### Host Interface
- PCIe Gen3 x8

### Form Factor
- OCP
- Low Profile
- Half Size
- Low Profile

### Concurr. Conn.
- 256 \(\rightarrow\) 1k
- 32k

### Power (Typical)
- 12W
- 17W
- 21W
- 26W
- 13W

### Airflow
- 200 LFM (Linear Feet Per minute)

### Chelsio P/N
- **T520-OCP**
- **T520-SO-CR**
- **T520-LP-CR**
- **T520-CR**
- **T540-CR**
- **T540-BT**
- **T520-BT**

### Ports
- 2x1/10G
- 4x1/10G
- 4x100M/1G/10G
- 2x100M/1G/10G

### Connector Type
- SFP+Cage
- RJ-45

### Host Interface
- PCIe Gen3 x8

### Form Factor
- OCP
- Low Profile
- Half Size
- Low Profile

### Concurr. Conn.
- 256 \(\rightarrow\) 1k
- 32k

### Power (Typical)
- 9W
- 12W
- 16W
- 16W
- 26W
- 20W

### Airflow
- 200 LFM (Linear Feet Per minute)

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### 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
- iSCSI Offload (Initiator and Target)
- FCoE Offload
- iWARP RDMA Offload
- NVMe Over Fabrics
- NVMe JBOF (Just a Bunch of Flash)
- GPU Direct RDMA
- Wire Direct Low Latency Suite
- SRIOV / Virtualization
- DPDK / PacketDirect / Netmap
- OVS / OpenFlow Offload
- NVGRE / VXLAN / Geneve
- Media StreamEngine
- Traffic Management / DCB
- Packet Classification
- Sniffer / Tracer
- Multi / Single adapter Failover

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1. Supported only on T6 family of adapters
2. Not supported by SO (Server Offload) adapters

**LL**: Low Latency    **LP**: Low Profile    **SO**: Server Offload
**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 Unified Wire Engine, 2x40G or 4x10G ports, server offload.
- **T5ASIC10G-SO**: T5 Unified Wire 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

**Accessories**

<table>
<thead>
<tr>
<th>Twinaxial Cables</th>
<th>Optical Cables</th>
<th>Optical Transceivers</th>
</tr>
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<tbody>
<tr>
<td>TAPCABLE1M (1M 10G Passive)</td>
<td>QTAPCABLE1M (1M 40G QSFP+ Passive, 30 AWG)</td>
<td>SM10G-SR (10G Short Reach SFP+)</td>
</tr>
<tr>
<td>TAPCABLE3M (3M 10G Passive)</td>
<td>QTAPCABLE3M (3M 40G QSFP+ Passive, 30 AWG)</td>
<td>SM10G-LR (10G Long Reach SFP+)</td>
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<tr>
<td>TAPCABLE5M (5M 10G Passive)</td>
<td>QTAPCABLE5M (5M 40G QSFP+ Passive, 26 AWG)</td>
<td>SM25G-SR (25G Short Reach SFP28)</td>
</tr>
<tr>
<td>TAPCABLE28-2M (2M 25G Passive)</td>
<td>QTAPCABLE28-2M (2M 100G QSFP28 Passive)</td>
<td>SM40G-SR (40G Short Reach QSFP+)</td>
</tr>
<tr>
<td>TAPCABLE28-3M (3M 25G Passive)</td>
<td>QTAPCABLE28-3M (3M 100G QSFP28 Passive)</td>
<td>SM40G-LR (40G Long Reach QSFP+)</td>
</tr>
<tr>
<td></td>
<td>OCTTAPCABLE3M (3M QSFP+ to 4xSFP+ Passive)</td>
<td>SM100G-SR (100G Short Reach QSFP28)</td>
</tr>
</tbody>
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**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 or email support at support@chelsio.com. Drivers for Chelsio adapters are available at 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**

- AMD
- Linux
- SUSE Linux
- Windows
- VMware ESXi
- x86
- POWER
- CentOS
- OpenPOWER
- ARM
- KVM
- Windows 10
- ARM
- MacOS
- Redhat
- FreeBSD
- Xen Server
- VMware ESXi
- x86
- POWER
- CentOS

<<Contact Information>>

Chelsio Communications  *  www.chelsio.com  *  sales@chelsio.com  *  +1-408-962-3600