

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 → 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 → 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-CR | T520-LL-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 → 1k | | 32k | | | | |
| Power (Typical) | 9W | | 12W | 16W | 16W | 26W | 20W |
| Airflow | 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 crypto¹
 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 StreamEngine²
 Traffic Management / DCB
 Packet Classification
 Sniffer / Tracer
 Multi / Single adapter Failover

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

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

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 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

