

Chelsio Unified Wire Adapter Product Selection Guide



Single Adapter with concurrent Multi-Protocol Operation

T6 ASIC based Ethernet Adapters					
					
Chelsio P/N	T62100-CR	T62100-LP-CR	T62100-SO-CR	T6225-SO-CR	T6225-CR
Ports	2x40/50/100G			2x10/25G	
Connector Type	QSFP28			SFP28	
Host Interface	PCIe Gen3 x16			PCIe Gen3 x8	
Form Factor	Half Size	Low Profile			
Concurr. Conn.	32k			256	32k
Power (Typical)	22W	19W	16W	10W	13W
Airflow	200 LFM (Linear Feet Per minute)				
Adapter Type	Unified Wire		Server Offload	CNA	Unified Wire
T5 ASIC based Ethernet Adapters					
					
Chelsio P/N	T520-BT	T520-CR	T540-LP-CR	T520-SO-CR	
Ports	2x100M/1/10G	2x1/10G	4x1/10G	2x1/10G	
Connector Type	RJ-45	SFP+			
Host Interface	PCIe Gen3 x8				
Form Factor	Low Profile				
Concurr. Conn.	32k				
Power (Typical)	20W	12W	11W	9W	
Airflow	200 LFM (Linear Feet Per minute)				
Adapter Type	Unified Wire			Server Offload	
Adapter Types and Supported Functions:					
Server Offload	L2 NIC				
CNA	Server Offload Functions, iSCSI Init HW Offload, iSER Init HW Offload, NVMe-oF Init HW Offload, FCoE Init, S2D iWARP HW Offload, RDMA over iWARP				
Unified Wire (UWire)	Server Offload & CNA functions, Storage Targets Offload, FCoE HW Offload, Media Streaming Offload, TCP & UDP Offloads, Traffic Management, Filtering, Unified Boot, Encryption Offload ¹				

Features

- Windows Server 2012-R2 / 2016 / 2019
- Windows Storage Spaces Direct (S2D)
- Windows Azure Stack Private Cloud
- Windows Network Direct
- Windows SMB Direct
- Windows Client RDMA
- Windows Storage Replica (SR)
- Windows d.VMMQ
- Low Latency L2 NIC
- TCP/IP Offload Engine (TOE)
- iWARP RDMA Offload
- TLS/SSL, DTLS, IPsec, SMB 3.X crypto^{1,2}
- iSCSI Offload (Initiator and Target)
- iSER Offload (Initiator and Target)
- FCoE HW Offload (Initiator)
- NVMe-oF (Initiator and Target)
- NVMe/TCP (Initiator and Target)
- NVMe/TOE (Initiator and Target)
- NVMe JBOF (Just a Bunch of Flash)
- SPDK NVMe/TOE Target
- Wire Direct Low Latency Suite
- SR-IOV / 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

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

Chelsio ASIC, Software and Support Guide



Unified Wire & Server Offload Controller ASICs

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, DCB, NVMe-oF, NVMe/TCP, NVMe/TOE 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.

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

Chelsio Terminator Core IP

Chelsio's Terminator Core IP is a configurable, high performance Ethernet packet processing engine with a full suite of software, suitable for a wide range of SoC network connectivity solutions. Contact sales@chelsio.com for more information.

Accessories

Twinaxial Cables

TAPCABLE3M (3M 10G Passive)
TAPCABLE28-3M (3M 25G Passive)

QTAPCABLE3M (3M 40G QSFP+ Passive, 30 AWG)
OCTTAPCABLE3M (3M QSFP+ to 4xSFP+ Passive)

QTAPCABLE28-1M (1M 100G QSFP28 Passive)
QTAPCABLE28-2M (2M 100G QSFP28 Passive)

Optical Cables

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

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

