











Chelsio T4 Unified Wire Adapter Product Selection Guide

10GbE and 1GbE Adapters							
Chelsio P/N	T420-CR	T440-CR	T420-BCH	T420-SO-CR	T422-CR	T420-CX	T404-BT
Number of Ports	2x10G	4x10G	2x10G	2x10G	2x1G, 2x10G	2x10G	4x1G
Connector Type	SFP+ cage	SFP+ cage	XAUI	SFP+ cage	SFP+ cage, RJ-45	CX4	100m/1GBase-T
Host Interface	PCIe x8 Gen 2	PCIe x8 Gen 2	PCIe x8 Gen 2	PCIe x8 Gen 2	PCIe x8 Gen 2	PCIe x8 Gen 2	PCIe x4 Gen 2
Description	Low Profile	Half Size	IBM CFFh	Low Profile	Low Profile	Low Profile	Low Profile
Connection Capacity	32K	32K	32K	128	32K	32K	32K
Full TCP Offload	YES	YES	YES	YES	YES	YES	YES
Full UDP/Multicast offload	YES	YES	YES	NO	YES	YES	YES
Full iWARP RDMA offload	YES	YES	YES	NO	YES	YES	YES
Full iSCSI, FCoE offload I & T	YES	YES	YES	YES	YES	YES	YES
Traffic Management	YES	YES	YES	YES	YES	YES	YES
Packet classification	YES	YES	YES	YES	YES	YES	YES
SR-IOV, VEB/VEPA/ Flex10	YES	YES	YES	YES	YES	YES	YES
Op-FCoE, Op-iSCSI	YES	YES	YES	YES	YES	YES	YES
Power	12W	14W	12W	9W	14W	12W	10W
Recommended For:	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE Virtualization	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE Virtualization	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE Virtualization	Unified Wire: NIC, TOE, iSCSI, FCoE and Virtualization	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE and Virtualization	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE and Virtualization	Unified Wire: RDMA, TOE, NIC, iSCSI, FCoE and Virtualization

Cable and Transceiver Options							
Chelsio P/N	TAPCABLE1M	TAPCABLE3M	TAPCABLE5M	SRCABLE3M	LRCABLE3M	SM10G-SR	SM10G-LR
Interface	SFP+ Direct Attach	SFP+ Direct Attach	SFP+ Direct Attach	Fiber Optics (SFP+ or XFP Short Reach)	Fiber Optics (SFP+ or XFP Long Reach)	Fiber Optics SFP+ Short Reach	Fiber Optics SFP+ Long Reach
Description	Twinax passive cable Length - 1m	Twinax passive cable Length - 3m	Twinax passive cable Length - 5m	Fiber Optic multi-mode cable Length - 3m	Fiber Optic single-mode cable Length - 3m	10G short reach multi-mode optical module	10G long reach single-mode optical module

⊕ Chelsio Unified Wire adapters are compatible with all industry leading switches.

T4 - Cloud, Storage, HPC, and Virtualization Ready 10GbE Solution

Support

- 1-year limited hardware warranty – free repair or replacement for faulty hardware due to Chelsio defect or failure.
- Extend warranty to 3 years can be purchased within first year.
- 30 days free technical support, software maintenance & upgrades with the purchase of any Chelsio adapter or software product.

Support and warranty package ordering info

- T4SUPCRD**
Support Plan - One year extended technical support: phone, Email, Web (per adapter)
- SUPPORT-GOLD**
Gold Support Plan - 40 hours extended technical support: Onsite, 24-hr response/replacement
- SUPPORT-SILVER**
Silver Support Plan - 4 hours extended technical support: Onsite, 24-hr response/replacement
- CARDWARR3**
3 year extended hardware warranty (per adapter)

T4 ASIC Details

http://chelsio.com/t4_asic.html

Adapter Product Briefs

<http://chelsio.com/products.html>

Unified Manger Product Brief

http://chelsio.com/unified_manager.html

Product Driver Download

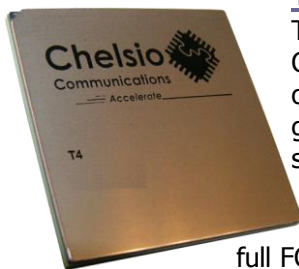
<http://service.chelsio.com>

How to buy?

sales@chelsio.com

Support

support@chelsio.com



T4 ASIC

The Terminator 4 ASIC represents Chelsio's fourth-generation TCP offload (TOE) design, third-generation iSCSI design, and second-generation iWARP (RDMA) implementation. In addition to full TCP and iSCSI offload, T4 supports full FCoE offload.

T4 ASIC reference design Kit

The Reference Design Kit contains:

- Data Book
- SPICE model
- IBIS model
- BOM
- PCB file
- Schematic review
- BSD file

T4 ASIC ordering info

- T4ASIC40G** - Chelsio 4th Generation Ethernet Controller Unified Wire Engine
- T4REFDSN** - Reference Design Kit for T4 ASIC (includes scheme/layout review, 20 hours of support)



UM – Unified Manager

Unified Manager centrally manages all Chelsio network adapter cards on the network across Windows and Linux environments. It manages the networking enterprise by providing a simple, intuitive, and fast way to manage each iSCSI initiator, iSCSI target TOE, NIC and OFED on the network.

Unified Manager ordering info

- UM-1.1** Unified Manager software. It has to be purchased with MAINT1. 25 seats.
- MAINT1** Annual software maintenance (per seat). Includes patches, upgrades technical support. Phone, Email & Web.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH CHELSIO PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN CHELSIO'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, CHELSIO ASSUMES NO LIABILITY WHATSOEVER, AND CHELSIO DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF CHELSIO PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. CHELSIO PRODUCTS ARE NOT INTENDED FOR USE IN MEDICAL, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS. CHELSIO MAY MAKE CHANGES TO SPECIFICATIONS AND PRODUCT DESCRIPTIONS AT ANY TIME, WITHOUT NOTICE.

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

T4 Highlights

- PCI Express Gen2 x8
- Full TCP, UDP Offload,
- TCP Chimney
- Full iSCSI, FCoE Offload
- Full iWARP RDMA Offload
- Packet time stamping, sniffing and filtering support
- TCP Proxy Offload
- Integrated Media Streaming Offload
- EVB/VEPA/DCB/VNTAGs
- SR-IOV

T4 Applications

- Cloud Computing
- Networking – TCP & UDP Offload
- Storage – iSCSI & FCoE Offload
- Low latency – Financials, HPC
- HPC – RDMA implementation
- Security and firewalls
- Web 2.0 and load balancing
- Virtualization
- Network traffic management
- Rich media streaming
- Application servers

