



License Request to Display OpenPOWER Ready Mark



Chelsio Communications, Inc. hereby requests a license to display the OpenPOWER Ready mark for its T520-CR 10 GbE Adapter. This document provides evidence that the criteria required by the OpenPOWER Foundation has been met.

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| Owner: | Chelsio Communications, Inc. |
| Contact Name : | Bob Dugan |
| Contact E-mail Address | bobdugan@chelsio.com |
| Submission Date: | 3/29/2016 |
| Product/Component Designator: | T520-CR |
| Short Product/Component Description: | Chelsio's T520-CR is built upon the Terminator 5 (T5) High Performance ASIC and is a 10 GbE Unified Wire adapter, with PCI Express Gen 3 host bus interface, optimized for cloud computing, HPC, virtualization, storage, and other data center applications |
| Product/Component Information URL : | http://www.chelsio.com/nic/unified-wire-adapters/t520-cr/ |
| Tag String: | Ethernet Adapter, 10GbE, RDMA, iWARP, iSCSI, FCoE, NIC, SAN, Storage, 2 ports, offload, TOE, Classification, Traffic Management, UDP Offload |
| OpenPOWER Ready Criteria Document version: | Rev 1.0 - Approval version |
| Product/Component Category (System, I/O, CAPI, OS, app) | I/O adapter |



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Ready Checklist: Describe how the product satisfies the criteria.

| Item | Description |
|-------------------------------|---|
| Dimensions | 2.7" x 6.6" |
| Bus Interface | Compliant PCI Express (PCIe) 3.0 x8 Lanes |
| UEFI Boot | UEFI Specification, Version 2.3 |
| Ethernet Connectivity | 10Gb Ethernet |
| Number of ports | 2 ports of 10 Gb Ethernet |
| Latency | Very low latency Ethernet |
| Operating Voltage | 12V±8%, 3.3V±9% DC |
| Operating Temperature | 25-Watt Enclosure: 0°-55°C |
| Airflow | Ambient with 200LFM air flow |
| Temperature Monitoring | Software readable |
| Driver | Chelsio Unified Wire Software package v2.11.1.0, which is posted and available on Chelsio's web-site: http://service.chelsio.com/ |
| Operating System Testing | RHEL 7.1LE running Linux 3.10.0-229.ael7b.ppc64le ppc64le GNU/Linux |
| Test platform | Tyan GN70-BP010 server |
| Testing | All pass on various performance and data integrity tests using tools including iPerf, Netperf, IOzone, and Open MPI |
| Advanced tests performed | All pass with advanced tests include those for iSCSI, iWARP RDMA, FCoE, TOE, Classification & Traffic Management Engine, and UDP Offload |
| Performance benchmark results | http://www.chelsio.com/performance-benchmarks/ |

Criteria: [OpenPOWER Ready Criteria Document](#) **Trademark License Agreement and Usage Guidelines:** By submitting this License Request, you agree to the terms of the [OpenPower Trademark License Agreement](#) and the [OpenPower Trademark Usage Guidelines](#) if we approve your License Request. **Submit** OPR Form to: Ready@openpowerfoundation.org **Other Trademarks:** You will need to submit a separate application for each trademark you wish to license.



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