Tahoe 8722
Cavium-MIPS Based Desktop Networking Appliance   **Product Brief**

OVERVIEW

Interface Masters Technologies presents Tahoe 8722, a highly flexible 1U networking appliance designed for enterprise installations. Tahoe 8722 based on Cavium 64 bit MIPS technology. It supports CN78xx family of processors. It features two hot swappable IO modules. Each IO modules support either four ports of 10G or 1 ports of 4G fiber. Tahoe 8722 comes with two redundant hot swappable power suppliers and four field replaceable fans.

Interface Masters provides support for the Cavium SDK on multiple Linux distributions. Additional software and firmware enables rapid application development. Interface Masters offers Level 1 and 2 support as well as software application development capabilities.

Target applications include:

- Network Security Appliance and offloads
- NFV (Network Function Virtualization)
- SDN (Software Defined Networks)
- SSL/IPSec offload processing
- 3G / 4G / LTE gateways
- UTM (Unified Treat Management)
- IDS (Intrusion Detection Systems)
- IPS (intrusion Prevention System)
- DLP (Data Loss Prevention)
- WAN optimization
- ADC (Application Delivery Controllers)
- Wireless controllers
- Load Balancers

Block Diagram of Tahoe 8722

PRODUCT FEATURES

CPU
- Cavium OCTEON III CN7870
  (24 Core at 1,600 / 1,800 / 2,000 / 2,500 MHz)
- Cavium OCTEON III CN7880
  (32 Core at 1,600 / 1,800 / 2,000 / 2,500 MHz)
- Cavium OCTEON III CN7890
  (48 Core at 1,600 / 1,800 / 2,000 / 2,500 MHz)

DRAM
- 2x 72 bit with ECC, up to 64GB DDR III, Four SODIMM

None Volatile Memory
- SPI NOR EEPROM
- eMMC
- Micro SD

I/O Interfaces
- 4 x 10GE SFP+ ports
- 1 x 10/100/1000 management port
- 1 x RS232 console port
- 2X USB 3.0
- 2 x Hot swappable IO module
  (up to 8x 10G / 2 x 40G)

Functions
- Real time clock
- Temperature sensor
- Optional TPM

Power Supplies
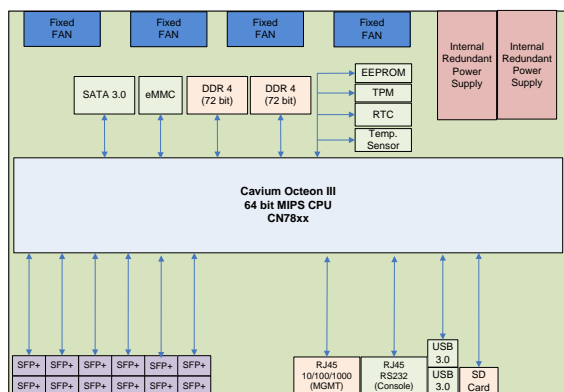- Two hot swappable redundant power supplies

Fans
- Fans field swappable fans

IO Modules
- Two hot swappable IO modules

Operating System
- Cavium SDK

ENVIRONMENTAL

Temperature	Operating	0º to 40 ºC
	Storage	-40º to +85º C
Humidity	Operating	10 to 90% relative humidity non-condensing
	Storage	5 to 95% relative humidity non-condensing

DIMENSIONS

	Inches	Millimeter
Length	17.50	445
Height	1.73	44
Width	17.25	438

IO MODULE ORDERING NUMBER

Tahoe8722-M01	IO Module with 8 1/10G SFP+ ports
Tahoe8722-M02	IO Module with 1 ports of 40G QSFP+

STANDARD ACCESSORIES

Tahoe8722-ACS01	Mounting ear

ORDERING INFORMATION

Part Number	Description
Tahoe8722-CN7870-1600	Tahoe8722 with OCTEON III CN7870 at 1,600 MHz with no IO module
Tahoe8722-CN7870-1800	Tahoe8722 with OCTEON III CN7870 at 1,800 MHz with no IO module
Tahoe8722-CN7870-2000	Tahoe8722 with OCTEON III CN7870 at 2,000 MHz with no IO module
Tahoe8722-CN7870-2500	Tahoe8722 with OCTEON III CN7870 at 2,500 MHz with no IO module
Tahoe8722-CN7880-1600	Tahoe8722 with OCTEON III CN7880 at 1,600 MHz with no IO module
Tahoe8722-CN7880-1800	Tahoe8722 with OCTEON III CN7880 at 1,800 MHz with no IO module
Tahoe8722-CN7880-2000	Tahoe8722 with OCTEON III CN7880 at 2,000 MHz with no IO module
Tahoe8722-CN7880-2500	Tahoe8722 with OCTEON III CN7880 at 2,500 MHz with no IO module
Tahoe8722-CN7890-1600	Tahoe8722 with OCTEON III CN7890 at 1,600 MHz with no IO module
Tahoe8722-CN7890-1800	Tahoe8722 with OCTEON III CN7890 at 1,800 MHz with no IO module
Tahoe8722-CN7890-2000	Tahoe8722 with OCTEON III CN7890 at 2,000 MHz with no IO module
Tahoe8722-CN7890-2500	Tahoe8722 with OCTEON III CN7890 at 2,500 MHz with no IO module

CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services are available.

ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a long term Cavium partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.

Address: 150 East Brokaw Rd., San Jose, CA 95112
Phone: 408-441-9341
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

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Innovative Network Solutions