Tahoe 8623

Cavium-Based Desktop Networking Appliance   **Product Brief**

OVERVIEW

Interface Masters Technologies presents Tahoe 8623, a highly flexible and expandable 1U networking appliance with the lowest OPEX. Tahoe 8623 is based on Cavium 64 bit MIPS processors. It supports CN61xx and CN62xx family of processors. It features low power consumption, a small form factor, eight 1GE SFP ports, an SD card, and two USB host ports. Customization services are offered. Interface Masters technologies provide 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 Access Points, Network Security Appliances such as UTM (Unified Treat Management), IDS (Intrusion Detection Systems), IPS (intrusion Prevention System), DLP (Data Loss Prevention) & CMS (Content Management Systems), Networking Offload assist, SSL/IPSec offload processing, WAN optimization, Application Delivery Controllers and custom networking appliances.

Block Diagram of Tahoe 8623

PRODUCT FEATURES

CPU
- Cavium Octeon II CN6120
  (2 Core at 600 / 800 / 1,000 / 1,200 MHz)
- Cavium Octeon II CN6130
  (4 Core at 600 / 800 / 1,000 / 1,200 MHz)
- Cavium Octeon II CN6220
  (2 Core at 800 / 1,000 MHz)
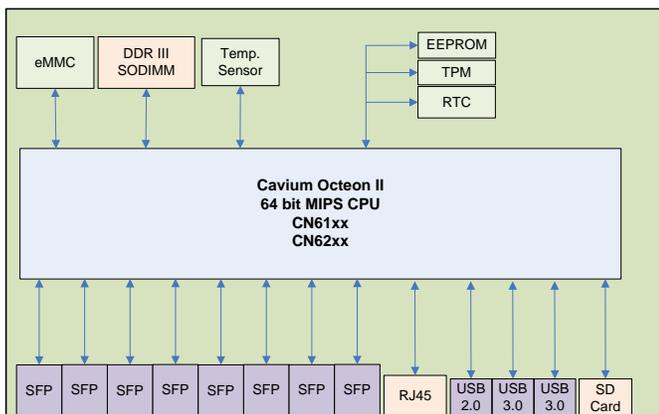- Cavium Octeon II CN6230
  (4 Core at 800 / 1,000 MHz)

DRAM
- 72 bit with ECC, up to 16GB DDR III, one SODIMM

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

I/O Interfaces
- 8 x 1GE SFP ports
- 1 x 10/100/1000 management port
- 1 x RS232 console port
- 1X USB 2.0
- 2X USB 3.0

Functions
- Real time clock
- Temperature sensor
- Optional TPM

Power Supplies
- Two external redundant power bricks

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	12	305
Height	1.73	44
Width	11.25	286

STANDARD ACCESSORIES	
Standard	
Tahoe8623-ACS01	Mounting ear

ORDERING INFORMATION	
Part Number	**Description**
Tahoe8623-CN6120-600	Tahoe8623 with Octeon II CN6120 at 600 MHz
Tahoe8623-CN6120-800	Tahoe8623 with Octeon II CN6120 at 800 MHz
Tahoe8623-CN6120-1000	Tahoe8623 with Octeon II CN6120 at 1000 MHz
Tahoe8623-CN6120-1200	Tahoe8623 with Octeon II CN6120 at 1200 MHz
Tahoe8623-CN6130-600	Tahoe8623 with Octeon II CN6130 at 600 MHz
Tahoe8623-CN6130-800	Tahoe8623 with Octeon II CN6130 at 800 MHz
Tahoe8623-CN6130-1000	Tahoe8623 with Octeon II CN6130 at 1000 MHz
Tahoe8623-CN6130-1200	Tahoe8623 with Octeon II CN6130 at 1200 MHz
Tahoe8623-CN6220-800	Tahoe8623 with Octeon II CN6220 at 800 MHz
Tahoe8623-CN6220-1000	Tahoe8623 with Octeon II CN6220 at 1000 MHz
Tahoe8623-CN6230-800	Tahoe8623 with Octeon II CN6230 at 800 MHz
Tahoe8623-CN6230-1000	Tahoe8623 with Octeon II CN6230 at 1000 MHz

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.

Interface Masters
T E C H N O L O G I E S
Innovative Network Solutions