

Interface Masters



Innovative Network Solutions

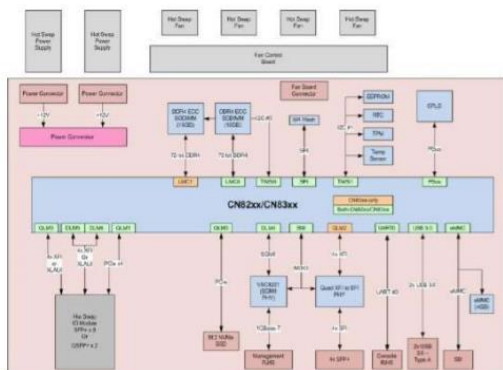
OVERVIEW

Tahoe 8824 from Interface Masters Technologies is a highly flexible 1U desktop networking appliance designed for enterprise market. Tahoe 8824 is based on Cavium 64-bit ARMv8 Technology. It supports DPDK for applications that require highly effective data processing. It also supports CN83xx family of processors.

The appliance supports Cavium’s CN8380 family of processors and features four fixed ports of 10G SFP+ and two field-replaceable I/O modules. Four I/O modules are currently available which support either eight ports of 10G SFP+, tow ports of 25G SFP28, two ports of 40G QSFP+ and a double-wide featuring 4 ports of 100G QSFP25 + 24 ports of 1/10G SFP+. New I/O modules are in development – please contact our sales office for the latest list of I/O modules. It comes with two redundant hot swappable power supplies 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 software application development capabilities.

Target application include Access Points, Network Security Appliances such as Unified Treat Management (UTM), Intrusion Detection System (IDS), Intrusion Prevention System (IPS), Data Loss Prevention (DLP), and Content Management Systems (CMS), Networking Offload Assist, SSL/IPSec Offload Processing, WAN Optimization, Application Delivery Controllers, and Custom Networking Appliances.



Block Diagram of Tahoe 8824



Tahoe 8824 (ISO View)

PRODUCT FEATURES

CPU:

- Cavium OCTEON TX CN8380 (24 Core at 1800 / 1,400 / 1,200 MHz)
- Cavium OCTEON TX CN8340 (8 Core at 1200 / 1,000 / 800 MHz)

DRAM:

- 72-bit DDR4 memory with ECC

Non-Volatile Memory:

- SPI NOR Flash, eMMC, SD Slot CARD

I/O Interfaces:

- Eight SFP cages with 10/100/100bT
- One 1000 Base-T Ethernet Port
- Four 10Gbps SFP+ port
- RJ45 RS232 serial port
- Two USB 3.0 Type-A

Available Field-Replaceable I/O Modules:

- 8 x 10G SFP+
- 2 x 25G SFP28
- 2 x 40G QSFP+
- 4 x 100G QSFP+ plus 24 x 1/10G SFP+ (in-development)
- Additional I/O modules in development

Functions:

- Real-time clock
- Temperature sensor
- Optional Trusted Platform Module (TPM)

Other:

- Dual-redundant hot-swap power supplies
- Four field-replaceable fans
- Operating System: Linux with Cavium SDK

ENVIRONMENTAL	
Operating Temperature	0° to 40 °C (32° to 104°F)
Storage Temperature	-40° + 85°C (-40°F to 185°F)
Operating Humidity	10 to 90% RH, non-condensing
Storage Humidity	5 to 95% RH, non-condensing

DIMENSIONS		
	Inches	Millimeter
Length	17.50	445
Height	1.73	44
Width	17.25	439

STANDARD ACCESSORIES	
TAC104	Rack mounting ear
TAC103	Sliding guides

RELATED PRODUCTS ORDERING INFORMATION	
Part Number	Description
Tahoe8824-CN8380-1200	Standard base system Tahoe 8824 with no I/O modules. Cavium OCTEON TX CN8380 (24 Core at 1200 MHz) CPU, 32GB
IM13233	I/O module with 8 x 1/10G SFP+
IM13262	I/O module with 2 x 10/25G SFP28
IM13264	I/O module with 2 x 10/40G QSFP
IM13266	Double-wide I/O module with 4 x 100G QSFP28 and 24 x 1/10G SFP+

CUSTOMIZATION SERVICES

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



ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high-speed networking solutions focused on 1/10 /25/40/100/200 Gigabit Ethernet networking solutions. For over 25 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.

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