



## OVERVIEW

Interface Masters Technologies presents Tahoe 8830, a highly-flexible 1U networking appliance designed for enterprise installations. The appliance is based Marvell's OCTEON TX2 ARM-64 multicore processor family and supports a unique 'special function' module. The optional factory-installed module can be configured with either a high-performance Intel offload processing module or a PCI x16 network card including advanced GPUs (device is thermally validated using industry-leading ANSYS® thermal simulation).

Interface Masters provides support for the Marvell SDK on multiple Linux distributions. Additional software and firmware enables rapid application development.

Target applications include network security appliance and offloads, Edge Routers, Artificial Intelligence (AI), Network Function Virtualization (NFV), Software Defined Networks (SDN), SSL/IPSec offload processing, 3G / 4G / 5G / LTE gateways, Unified Threat Management (UTM), Intrusion Detection Systems (IDS), Intrusion Prevention System (IPS), Data Loss Prevention (DLP), WAN optimization, Application Delivery Controllers (ADC), wireless controllers and load balancers.



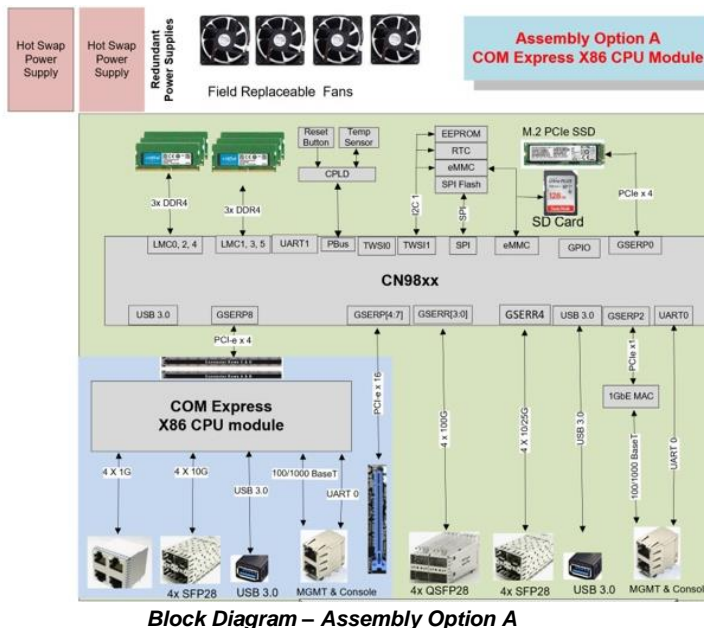
*Tahoe 8830 (Product in Development)*

## ARM Subsystem

- Marvell CN98xx OCTEON TX2 processor (complete CN98xx family, 30-36 cores)
- 200Gbps IPSEC with 200-240G IP-FWDing
- Four QSFP28 100G ports
- Four SFP28 10/25G ports
- Front-facing USB 3.0
- Dedicated console and management ports
- Six Channels of DDR4 at 3,200 MT/s
- One M.2 PCIe Gen4 SSD
- One SD card
- Four PCIe
- eMMC memory
- SPI Flash
- RTC
- Support for 3<sup>rd</sup> party PCI-e card
- Redundant hot swap power supplies
- Four field replaceable fans
- Strategically placed temperature sensors for managing thresholds and alerts
- Optional TPM and PTP

## Optional X86 Subsystem

- Xeon D 1500 Series up to 16 cores
- Four 10G ports
- Four 100/1000 copper ports
- One Console port
- One 100/1000 MGMT port
- One USB 3.0
- Three SODIMM DDR4 at 2,400 MT/s



ENVIRONMENTAL	
Operating Temperature	-5° to + 45°C (23°F to 113°F)
Operating Humidity	5 to 95%, non-condensing

Appliances DIMENSIONS		
	Inches	Millimeter
Length	18	457.2
Height	1.75	44.45
Width	16.80	426.72

PRELIMINARY POWER CONSUMPTION	
Typical	Maximum
Application Dependent	TBD

ORDERING INFORMATION	
Part Number	Description
Tahoe 8830 COM Express x86 CPU Module	Tahoe 8830 with Marvell OCTEON TX2 Marvell CN98xx Six Channels of DDR4 at 3,200 MT/s One M.2 PCI-e Gen 4 SSD No Optics Two 550W Power Supplies Four fans
X86 COM Express Module	Four SFP28 10G ports One USB 3.0 PCIe x 16

## 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 1/10/25/40/100/200/400 Gigabit Ethernet networking solutions. For 28 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 in Fremont, CA with satellite offices in Hong Kong and Europe.

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