

Interface Masters

TECHNOLOGIES

Innovative Network Solutions

OVERVIEW

Interface Masters Technologies presents Tahoe 8830, a highly-flexible 1U networking appliance designed for enterprise installations. The appliance features Marvell's OCTEON TX2 ARM64 multicore processor family and supports a range of high-performance offload processing upgrade options. The optional high-performance offload processing upgrades include either an Intel® XEON®-D class processing module or just about any PCI x16 lane network card including advanced NVIDIA® GPUs (both options 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)

PRODUCT FEATURES

CPU

- Marvell CN98xx OCTEON TX2 processor (CN9880 2.2GHz standard, 30-36 cores)
- 200Gbps IPsec with 200-240G IP-FWDing

DRAM

- Six (6) channels of DDR4 @ 3,200 MT/s (support 96G to 192G DDR4)

Multiple Boot and Storage Options

- SPI Flash, eMMC and EEPROM
- M.2 PCI-e Gen4 SSD (16G to 1Tb storage)

I/O Interfaces

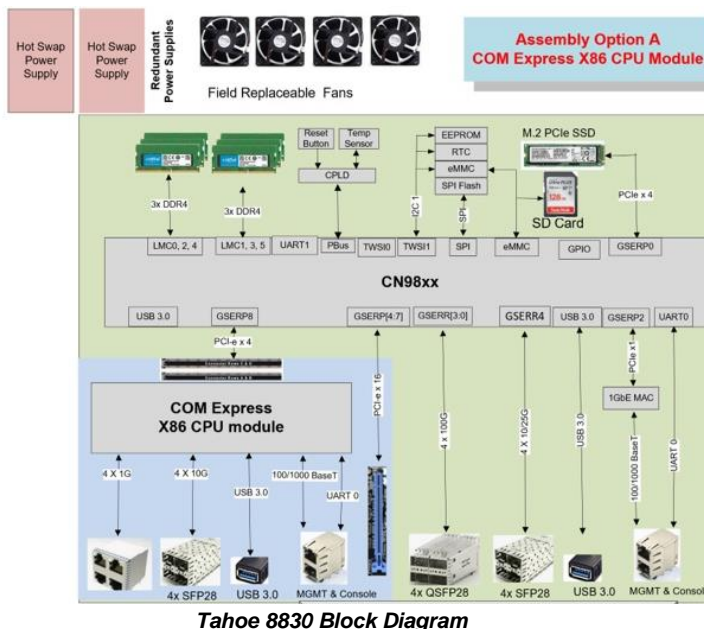
- Four (4) QSFP28 100G ports
- Four (4) SFP28 10/25G ports
- Dedicated console and management ports
- External front facing USB 3.0

High-Performance Offload Processing Modules

- Intel XEON-D class CPU module including a range of ports, front facing UART, dedicated MGMT and console port
- NVIDIA GPU offload module
- Support for 3rd Party PCI x16 lane network card

Additional Features

- Redundant hot-swap power supplies (AC or DC)
- Four field replaceable fans
- Stratum 3E Real Time Clock (RTC)
- Strategically placed temperature sensors (multiple)
- Optional Trusted Platform Module (TPM) and Precision Time Protocol (PTP)



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

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

STANDARD ACCESSORIES	
TAC104	Rack Mounting Ear
MCC05	Management and console cabling

ORDERING INFORMATION	
Part Number	Description
Tahoe8830-CN9880-AC	Tahoe 8830 with Marvell OCTEON TX2 CN9880 (2.2GHz), 96G DDR4 (3200MT/s), 128G SSD storage, redundant 550W AC power supplies and field replaceable fans.
Tahoe8830-CN9880-DC	Tahoe 8830 with Marvell OCTEON TX2 CN9880 (2.2GHz), 96G DDR4 (3200MT/s), 128G SSD storage, redundant 550W DC power supplies and field replaceable fans.
X86S-XD-1500	Xeon D 1518 (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

OPTIONAL ACCESSORIES	
TAC103	Standard Sliding Rails (24")
TAC110	Long Sliding Rails (27.5"+)

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NVIDIA® is a registered trademark of NVIDIA Corporation

Ansys® is a registered trademark of ANSYS, Inc

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 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 in San Jose, CA with satellite offices in Hong Kong and Europe.