

Interface Masters

TECHNOLOGIES

Innovative Network Solutions

OVERVIEW

Tahoe 8830 is a 1U appliance fully compatible with the Marvell® OCTEON TX2® processor family and is designed for the CN98xx 36 core at 2.2GHz ARM-64 processor.

The new CN98xx multicore CPU will be matched with an internal configuration that will include 6x DDR4 ECC as well as M.2 PCIe SSD.

In standard configuration, Tahoe 8830 will have a Trusted Platform Module (TPM), Precision Time Protocol (PTP) support, as well as strategically placed temperature sensors.

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.

All products are proudly designed and manufactured in the U.S.A.



Tahoe 8830 (Product in development)

Product Features

CPU

- Marvell OCTEON TX2 CN98XX 36-core 2600MHz)
- Compatibility with the full-range Marvell
- OCTEON TX2 CN98xx Multicore ARM64 processor family

DRAM

- Six SODIM DDR4 with ECC

Non-Volatile Memory

- eMMC
- NOR Flash
- M.2 PCIe SSD

I/O Interfaces

- 4x QSFP28
- 4x SFP28
- 1x RJ45 10/100/1000baseT
- RJ45 RS232 Console port
- USB3.0
- Front facing SD card

Functions

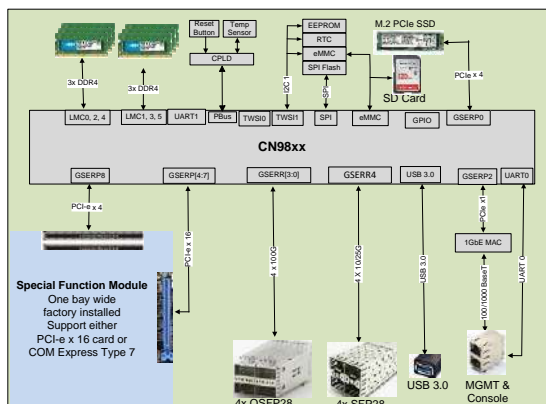
- Support for SyncE and IEEE-1588
- Real time clock
- Temperature sensor
- External power supply

Operating System

- Linux Marvell SDK
- Class A, UL, FCC, EU and Japan certification

Additional Features

- Dual-redundant 500W hot-swap power supplies
- Four standard dual-stack fans
- Full RoHS compliance



Block Diagram showing high-level system design

| ENVIRONMENTAL | |
|-----------------------|------------------------------|
| Operating Temperature | 0° to + 40°C (32°F to 104°F) |
| Operating Humidity | 5 to 95%, non-condensing |

| Appliances DIMENSIONS | | |
|-----------------------|--------|------------|
| | Inches | Millimeter |
| Length | 18 | 609.6 |
| 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 | Tahoe 8830 with Marvell OCTEON TX2 CN98xx (36-Core at 2000 MHz). 24GB DDR4. 128GB PCI-e SSD No Optics Two 550W Power Supplies Four fans |

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 1/10/25/100/200 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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