Interface Masters
TECHNOLOGIES
Innovative Network Solutions
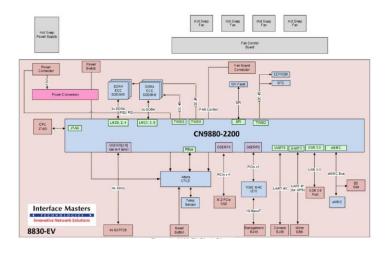

Tahoe 8830-EV (CN9880 Evaluation Unit)

OVERVIEW

Interface Masters Technologies presents Tahoe 8830-EV, an evaluation platform for Marvell's venerable CN9880 OCTEON TX2 ARM-64 multicore processor family (30-36 cores) and features 200G IPsec with 200-240G IP-FWDing. The device is thermally validated using industry-leading ANSYS® thermal simulations.

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.

Block Diagram – Tahoe 8830-EV

ARM Subsystem

- Marvell CN98xx OCTEON TX2 processor (complete CN98xx family, 30-36 cores)
- 200Gbps IPSEC with 200-240G IP-FWDing
- Four QSFP28 100G ports
- Internal USB 3.0 for development
- Dedicated console and management ports
- Six Channels of DDR4 at 3,200 MT/s
- One M.2 PCIe Gen4 SSD
- One SD card
- eMMC memory
- SPI Flash
- RTC
- Four field replaceable fans
- Strategically placed temperature sensors for managing thresholds and alerts
- Standard PTP

World-Class Development Support

- Marvell SDK supported on multiple Linux distributions.
- Complete documentation and support to expedite Customer's development.
- Team in place to support Customer's rapid transition to Marvell's ARM architecture and SDK.

ENVIRONMENTAL

Operating Temperature	-5º to + 45ºC (23ºF to 113ºF)
Operating Humidity	5 to 95%, non-condensing

Appliances DIMENSIONS

	Inches	Millimeter
Length	18	457.20
Height	1.75	44.45
Width	16.80	426.72

PRELIMINARY POWER CONSUMPTION

Typical	Maximum
Application Dependent	350

ORDERING INFORMATION

Part Number	Description
Tahoe 8830-EV-CN9880-AC	Tahoe 8830-EV 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 550W Power Supply (AC) Four fans
Tahoe 8830-EV-CN9880-DC	Tahoe 8830-EV 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 550W Power Supply (DC) Four fans

CUSTOMIZATION SERVICES

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

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