Marvell-MIPS Based

1U Rackmount Networking Appliance

Tahoe 8724 (ISO View)

OVERVIEW

Interface Masters Technologies presents Tahoe 8724, a highly-flexible 1U networking appliance designed for enterprise installations. Tahoe 8724 is based on Marvell 64-bit MIPS technology. The appliance can be ordered 'off-the-shelf' either with or without integrated Trusted Platform Module (TPM).

The appliance supports Marvell's CN78xx 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+, two ports of 25G SFP28, two ports of 40G QSFP+ and a double-wide featuring 4 ports of 100G QSFP28 + 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. Tahoe 8724 comes equipped with two redundant hot-swappable power supplies and four field-replaceable fans.

Interface Masters provides support for the Marvell SDK on multiple Linux distributions. Tahoe 8724 is Open Switch compatible. Additional software and firmware enables rapid application development. Interface Masters offers Layer 1 and 2 support as well as software application development capabilities.

Target applications include network security appliance, Network Function Virtualization (NFV), Software Defined Networks (SDN), SSL/IPSec offload processing, 3G / 4G / 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.
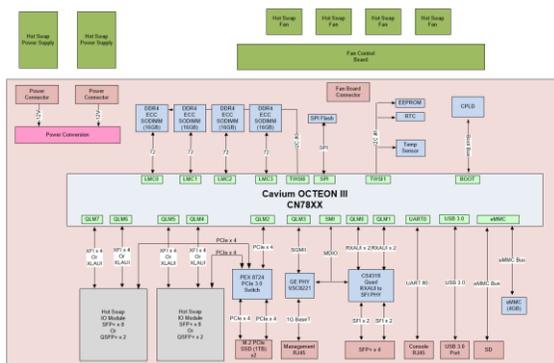
Block Diagram of Tahoe 8724

PRODUCT FEATURES

CPU
- o Marvell OCTEON III CN78xx (24-48 Cores)

DRAM
- o Four DDR4 SO-DIMM (4 x 16GB ECC)

Non-Volatile Memory
- o SPI NOR Flash, eMMC flash 4GB, Micro SD, 2 x M.2 SSD

I/O Interfaces
- o 4 x 10GE SFP+ ports
- o 1 x 10/100/1000 management port
- o 1 SD card slot
- o 1 x USB 3.0
- o 1 x RJ45 console port
- o Support for two I/O modules

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

Functions
- o Real-time clock
- o Temperature sensor
- o Optional Trusted Platform Module (TPM)
- o Optional FIPS compliance
- o Optional removable SSD

Other:
- o Dual-redundant hot-swap power supplies
- o Four field-replaceable fans
- o Full RoHS compliance
- o Open switch compatible
- o Operating System: Linux with Marvell SDK

ENVIRONMENTAL	
Operating Temperature	0º to 40 ºC (32º to 104ºF)
Storage Temperature	-20º - 65ºC (-4ºF to 149ºF)
Operating Humidity	10 to 90% RH, non-condensing
Storage Humidity	5 to 95% RH, non-condensing

DIMENSIONS		
	Inches	Millimeter
Length	21.00	533.40
Height	1.75	44.45
Width	16.80	426.72

STANDARD ACCESSORIES	
TAC104	Rack Mounting Ear
TAC103	Standard Sliding Rails (24")
TAC110	Long Sliding Rails (27.5"+)

RELATED PRODUCTS ORDERING INFORMATION	
Part Number	**Description**
Tahoe8724-CN7890-1800	Standard base system Tahoe 8724 with no I/O modules. OCTEON III CN7890 (48 Core 1800MHz) CPU, 64GB
Tahoe8724-CN7890-1800-TPM	Standard TPM version base system Tahoe 8724 with no I/O modules. OCTEON III CN7890 (48 Core 1800MHz) CPU, 64GB. Integrated Trusted Platform Module.
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 1/10/25/40/100/200/400 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.