I/O Module Supporting 4 Ports 100G & 24 Ports 10G

Double-Wide I/O Advanced Switching Accessory
Precision-Designed For Tahoe 8724 and Tahoe 8824

Interface Masters
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Innovative Network Solutions

OVERVIEW

This powerful Tahoe 8724/8824 module supports four (4) ports of 100GbE and twenty-four (24) ports of 10GbE. The module is based on Marvell's Bobcat III switch fabric managed by a Cavium CN7890 control plane.

This field-upgradeable double-wide I/O module is mechanically compatible with current (revision B and newer) Tahoe 8724/8824 chassis designs, and consumes two I/O bays.

Other Tahoe 8724/8824 single-wide I/O modules are currently available which support either eight-ports of 10G SFP+, two-ports of 25G SFP28 or two-ports of 40G QSFP+. New I/O modules are in development -- please contact our sales office for the latest list of I/O modules.

Interface Masters provides support for the Cavium SDK on multiple Linux distributions. Additional software and firmware enables rapid application development. Interface Masters offers Layer 1 and 2 support as well as software application development capabilities.

PRODUCT FEATURES

- Marvell Bobcat III switch fabric
- Supports four-ports of 100GbE QSFP28 and twenty-four ports of 10G SFP+
- Each port supports a variety of SFP modules/cables: SFP+ SR/LR/ER/SFP-SX/LX/TX
- Leverages full capabilities of Tahoe 8724 host system:
  - Cavium CN7890 control plane
  - RS-232 console port
  - 10/100/1000 management port
  - Optional security (FIPS, GPS, tamper proofing)
  - Complete SDK tools for custom development
- Other available Field-Replaceable I/O Modules:
  - 8 x 10G SFP+
  - 2 x 25G SFP28
  - 2 x 40G QSFP+
  - Additional I/O modules in development
- Operating System
  - Linux with Cavium SDK

TARGET APPLICATIONS

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.
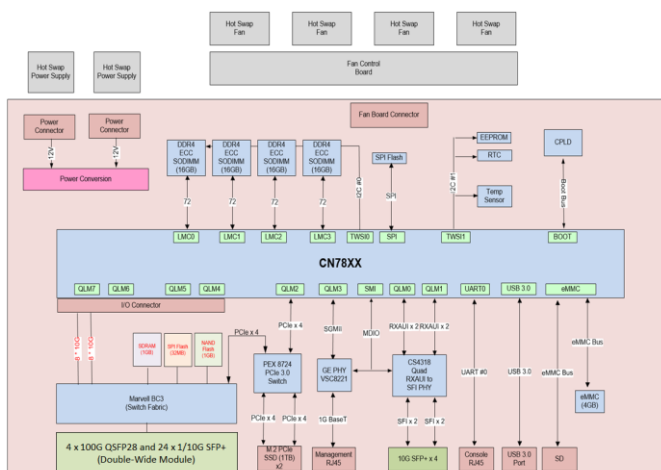
Block Diagram of IM13266 (4 ports of 100GbE and 24 ports of 10GbE)

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

COMPLETE TAHOE 8724/8824 SYSTEM DIMENSIONS

	Inches	Millimeter
Length	17.50	445
Height	1.73	44.0
Width	17.25	439.0

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 10G SFP+ ports
IM13262	I/O module with 2 x 25G SFP28
IM13264	I/O module with 2 x 40G QSFP ports
IM13266	Double-wide I/O module with 4 x 100G QSFP28 and 24 x 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 long term Cavium partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 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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