Broadcom Trident 3 Based Switch Appliance with Intel CPU & XEON ® D Offload
28 Ports 100G/40G, 8 Ports 25G and 2 Ports 1/10G

INTERFACE MASTERS

OVERVIEW

Interface Masters presents Tahoe 2728, a semi-modular 1U switch appliance based on Broadcom's Trident 3 switch fabric and managed by an Intel x86 control plane.

This semi-modular appliance supports two rear-facing I/O bays and can be upgraded with either an off-the-shelf Intel XEON D based offload processing module or a 100G port based module. Additional rear-facing I/O modules can be developed based on design requirements.

In standard configuration, Tahoe 2728 supports twenty-eight (28) ports of 100/40G QSFP28, eight (8) ports of 25G SFP28 and two (2) ports of 1/10G SFP+. Additional port configurations can be developed.

Software configurations include white box with ONIE and a complete SDK tool set for custom development. OpenSwitch support is currently in development. OpenFlow and software partner solutions are available.

Interface Masters proudly designs and manufactures all our products in the USA.

Tahoe 2728 OpenSwitch Platform (ISO View)

Product Features

Broadcom Trident 3 Switch Fabric

- 28 ports of 100/40G QSFP28
- 8 ports of 25G SFP28
- 2 ports of 1/10G SFP+

Intel Control Plane

- Powerful x86 control plane

Intel XEON D Off-Load Processing I/O Modules

- Two reliable Intel off-load processing modules

Dual Redundant Hot-Swappable Power Supplies

- High-efficiency power supplies (AC/DC or DC/DC)

Field Replaceable Fans

- Field replaceable fans (multiple airflow options)
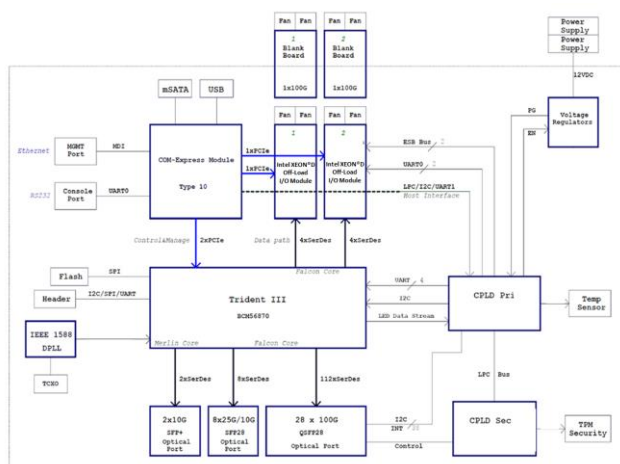
Management Interfaces

- Dedicated RS-232 console port
- Dedicated 10/100/1000 management port

Security

- Standard Trusted Platform Module (TPM)
- Optional security (FIPS 104-2 Level 3, GPS, tamper proofing)

Other

- Standard IEEE-1588 PTP support

Software

- ONIE – Open Network Install Environment
- SDK Broadcom tool set (with complete hardware specific SDK tools for custom development)
- Custom development and support

Block Diagram of Tahoe 2728

ENVIRONMENTAL

Operating Temperature	0º to 40 ºC (32º to 104ºF)
Storage Temperature	-20º - 65ºC (-4ºF to 149ºF)
Operating Humidity	5 to 85%, non-condensing
Airflow	100+lf/m

DIMENSIONS
(Preliminary)

	Inches	Millimeter
Length	24.25	615.95
Height	1.75	44.45
Width	17.25	438.15

PRELIMINARY POWER CONSUMPTION

Typical	Maximum
Application Dependent	240W (Estimated)

ORDERING INFORMATION

Part Number	Description
Tahoe 2728	Advanced Broadcom Trident III switching appliance with 28 ports of 100/40G QSFP28, 8 ports of 25G SFP28 and 2 ports of 1/10G SFP+. Intel x86 powerful control plane. Supports two I/O Bays.
IM13270	I/O module with Intel off-load processor, plus fans.
IM13251	I/O module: Port based, configured as 1 x 100G (pass-through) plus fans.

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 Marvell partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit 100 Gigabit and 400 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 Fremont, CA with satellite offices in Hong Kong and Europe.