

Broadcom® Trident™ 3 Based Managed Switch Appliance
With Intel Based DataSlammer™ Technology

Interface Masters

TECHNOLOGIES

Innovative Network Solutions



Tahoe 2748-6C (ISO View)

OVERVIEW

Interface Masters presents Tahoe 2748-6C, a semi-modular 1U managed switch appliance based on Broadcom Trident 3 high-speed switch fabric and Interface Masters' proprietary Intel based DataSlammer technology.

This semi-modular appliance supports two rear facing I/O bays and can be upgraded with any combination of off-the-shelf Intel XEON D based offload processing modules or the Xilinx® and Altera® performance-leading FPGA modules. Additional rear-facing I/O modules can be developed based on your design requirements.

In standard configuration, Tahoe 2748-6C supports six (6) ports of 100/40G QSFP28 and forty-eight (48) ports of 25G SFP28. Additional port configurations can be developed based on customer requirements.

Software configurations include SDK with complete specific SDK tools for custom development (hardware ready for customer's software). Custom software development and support is available (Interface Masters has extensive Broadcom Trident 3 experience).

All Interface Masters products are proudly made in the USA.

PRODUCT FEATURES

Broadcom Trident 3 Switch Fabric Supporting

- Six (6) ports of 100/40G QSFP28
- Forty-eight (48) ports of 25G SFP28

Intel Control Plane

- Powerful x86 control plane
- DataSlammer Technology

Two Best-In-Class Processing Modules

- Intel XEON D offload processing (current)
- Xilinx or Altera FPGA I/O module (roadmap)
- Any combination, validated on a single system

Dual Redundant Hot-Swappable Power Supplies

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

Management Interfaces

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

Security

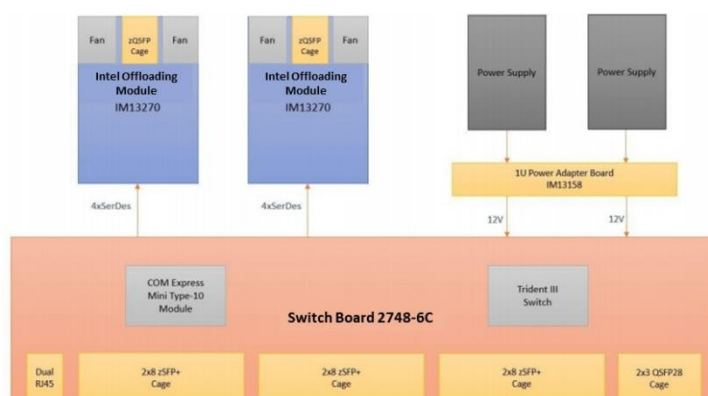
- Standard Trusted Platform Module (TPM)
- Optional security (FIPS 140-2 Level 3, GPS, tamper proofing)

Other

- Standard IEEE-1588 Precision Time Protocol (PTP) support

Software

- ONIE – Open Network Install Environment
- SDK with complete hardware specific SDK tools for custom development
- Custom software development and support is available (Interface Masters has extensive Broadcom Trident 3 experience)



Block Diagram – 2748-6C

ENVIRONMENTAL	
Operating Temperature	-5° to + 45°C (23°F to 113°F)
Storage Temperature	-20° to + 65°C (-4°F to 149°F)
Operating Humidity	5 to 85%, non-condensing

DIMENSIONS		
	Inches	Millimeter
Width	19	482.6
Height	1.75	44.45
Depth	24	609.6

POWER CONSUMPTION	
Typical	Maximum
385W	500W

ORDERING INFORMATION	
Part Number	Description
Tahoe2748-6C-X5-AC	Advanced Broadcom Trident 3 switch appliance with 6 ports of 100/40G QSFP28 and 48 ports of 25G SFP28. Intel x86 powerful control plane. Supports two rear-facing I/O Bays. AC version.
Tahoe2748-6C-X5-DC	Advanced Broadcom Trident 3 switch appliance with 6 ports of 100/40G QSFP28 and 48 ports of 25G SFP28. Intel x86 powerful control plane. Supports two rear-facing I/O Bays. DC version.
IM13297	I/O module with Intel XEON D off-load processor with integrated fans.
IM13298	I/O module with Xilinx Virtex UltraScale® Performance-Leading FPGA module with integrated fans.
IM13299	I/O Module with integrated fans.

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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 hardware solutions focused on 1/10/25/40/100/200/400 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 in San Jose, CA with satellite offices in Hong Kong and Europe.