Product Brief

Tahoe 2624

Barefoot Tofino Based Switch Appliance with Intel CPU & XEON [®] D Offload 24 Ports 100G/40G, 16 Ports 25/10G and Virtex UltraScale[®] FPGA Option.

Interface Masters

TECHNOLOGIES

Innovative Network Solutions

OVERVIEW

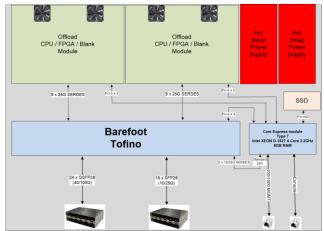
Interface Masters presents Tahoe 2624, a semimodular 1U switch appliance based on **Barefoot Tofino** ® high-speed switch fabric and managed by an Intel x86 control plane.

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

In standard configuration, Tahoe 2624 supports twenty-four (24) ports of 100/40G QSFP28 and sixteen (16) ports of 25/10G SFP28. Additional port configurations can be developed based on customer requirement.

Software configurations include white box with ONIE SDK (on Barefoot) and a complete hardware specific SDK tool set for custom development. Barefoot Deep Insight, Barefoot P4 Studio, development tools and software partner solutions available.

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



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Tahoe 2624 (ISO View)

Product Features

Barefoot Tofino Switch Fabric

- 24 ports of 100/40G QSFP28
- 16 ports of 25G SFP28

Intel Control Plane

Powerful x86 control plane

Two Best-In-Class Processing Modules

- Intel XEON® D Off-Load Processing I/O
- Xilinx Virtex UltraScale® Processing I/O
- Any combination, validated on a single system

Dual Redundant Hot-Swappable Power Supplies

• High-efficiency power supplies (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 104-2 Level 3, GPS, tamper proofing)

Other

Standard IEEE-1588 PTP support

Software

- ONIE SDK (on Barefoot)
- Protocol Independent Switch Architecture (PISA) with P4 programmability
- SDK with complete hardware specific SDK tools for custom development
- Custom development and support

Block Diagram of Tahoe 2624

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
430W	599W Estimated

ORDERING INFORMATION

Part Number	Description
Tahoe 2624	Advanced Barefoot Tofino switch appliance with 24 ports of 100/40G QSFP28 and 16 ports of 25/10G SFP28. Intel x86 powerful control plane. Supports two rear-facing I/O Bays.
IM13270	I/O module with Intel XEON D-1577 (16 cores, 1.3GHz CPU), with integrated fans.
IM13298	I/O module with Xilinx Virtex UltraScale® Performance-Leading FPGA module, plus fans.
IM13251	I/O module with integrated 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 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.

Barefoot Tofino® is a trademark of Barefoot Networks.

XEON® D is trademark of Intel Corporation.

Virtex UltraScale® is a trademark of Xilinx Corporation.

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