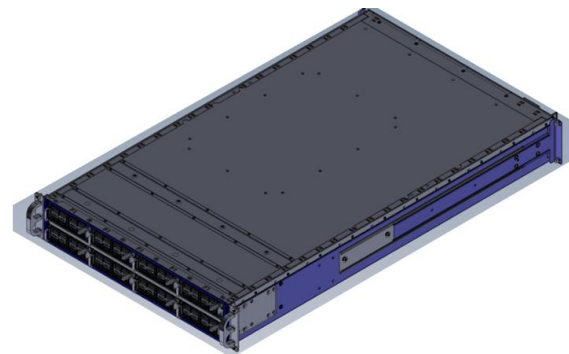


Interface Masters

TECHNOLOGIES

Innovative Network Solutions



Tahoe 2668 (ISO View)

OVERVIEW

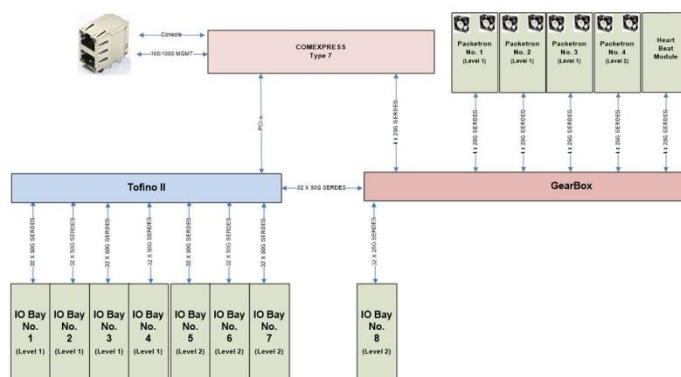
Interface Masters presents Tahoe 2668, a semi-modular 2U switch appliance based on Barefoot Tofino II® high-speed switch fabric and managed by an Intel x86 control plane.

The semi-modular appliance supports eight front-facing 8x100/40G I/Os and can be upgraded with up to four off-the-shelf Intel XEON® D based offload processing modules or a Xilinx Virtex UltraScale® performance-leading FPGA processing module. Additional I/O modules can be developed based on your design requirements.

In standard configuration, Tahoe 2668 supports sixty-four ports of 100/40G ports. Additional port configurations can be developed based on customer requirement.

Software configuration includes Barefoot Protocol Independent Switch Architecture (PISA) with P4 programmability, Sonic support for Barefoot, SDK with complete hardware specific SDK tools for custom development, all ports and features functional and ready for customer development.

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



Block Diagram of Tahoe 2668

PRODUCT FEATURES

Barefoot Tofino II Switch Fabric

- 64 ports of 100/40G QSFP28 (supported by eight front-facing I/O modules)
- Additional configurations can be developed

Intel Control Plane

- Powerful x86 control plane

Four 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

- Support Barefoot Protocol Independent Switch Architecture (PISA) with P4 programmability
- Sonic Support for Barefoot
- SDK with complete hardware specific SDK tools for custom development, all ports and features functional and ready for customer development

ENVIRONMENTAL	
Operating Temperature	0° to 45 °C (32° to 113°F)
Storage Temperature	-20° - 65°C (-4°F to 149°F)
Operating Humidity	5 to 85%, non-condensing
Airflow	100+lf/m

DIMENSIONS (Preliminary)		
	Inches	Millimeter
Length	31.00	787.40
Height	3.44	87.38
Width	17.15	435.61

PRELIMINARY POWER CONSUMPTION	
Typical	Maximum
TBD	490W (Estimated)

ORDERING INFORMATION	
Part Number	Description
Tahoe 2668	Advanced Barefoot Tofino II switching appliance with support for maximum 64 x 100/40G and Up to Four XEON® D or FPGA offload modules.
IM13276	I/O Module supporting 8 x 100/40G (front facing)
IM13278	I/O Module with XEON-D offload processor, plus fans (rear facing)
IM13280	I/O Module with Xilinx Ultrascale FPGA processor, plus fans (rear facing)
IM13282	Fan I/O module.

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 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 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.