Tahoe 2668

PRODUCT IN DEVELOPMENT

Marvell® Falcon™ Artificial Intelligence Accelerated Computing Platform
2x Optional AMD EPYC™ 2 Dataplanes

PRODUCT BRIEF

Interface Masters
TECHNOLOGIES
Innovative Network Solutions

OVERVIEW

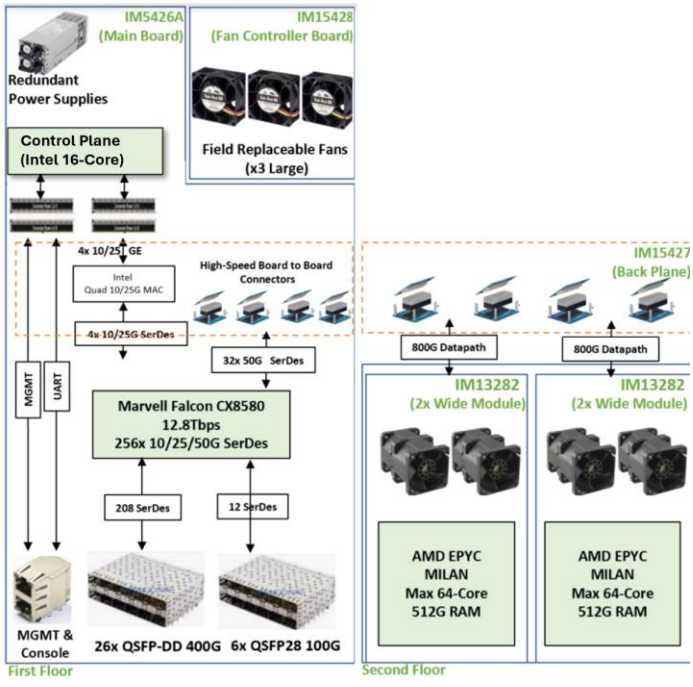
Interface Masters Technologies presents Tahoe 2668-ZR1, a 2U managed switch appliance based on the venerable Marvell Falcon CX8580 12.8 Tbps high-speed switch fabric and includes two optional AMD EPYC 2 Milan CPU (16 to 64-cores, up to 3.675GHz clock speed) dataplanes.

Three port configurations are available in standard form:

- 26 ports of 400G plus 6 ports of 100G

Full signal integrity, power integrity and thermal validations completed during development using ANSYS® simulation software and proprietary AMD® tools.

Software configurations include white box with ONIE SDK and a complete hardware specific SDK tool set for custom development. Support for Marvell **T**elemetry, **I**ntelligence, **P**erformance and **S**ecurity (TIPS) and fully shared packet buffer with w/Advanced QoS. Interface Masters currently developing SONiC, Stratum and DENT support for Marvell Falcon.



Tahoe 2668-ZR1 Block Diagram

Tahoe 2668-ZR1 (ISO View)

PRODUCT FEATURES

Marvell Falcon Switch Fabric

- Industry-leading Marvell Falcon (12.8 Tb)
- Intel XEON®-D, 16C 2.2GHz control plane

Industry-Leading AMD EPYC 2 Data Plane

- AMD EPYC 2 MILAN, dual x86 data plane
- 16 to 64-Cores (3.0GHz base clock, 3.675GHz max)
- Maximum 2048G memory (16x128G DIMMs, DDR4)
- Up to 4TB storage

Dual Redundant power supplies (AC or DC)

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

Management Interfaces

- Dedicated Console and Management ports

Security

- Standard Trusted Platform Module (TPM)
- US designed and US manufactured

Other

- Standard IEEE-1588 PTP support
- ANSYS thermal modeling optimization ensures optimal airflow and minimum internal turbulence

SOFTWARE

- Support for Marvell **T**elemetry, **I**ntelligence, **P**erformance and **S**ecurity
- Fully shared packet buffer with w/Advanced QoS
- SDK with complete hardware specific tools

ENVIRONMENTAL	
Operating Temperature	-5º to + 45ºC (23ºF to 113ºF)
Operating Humidity	5 to 95%, non-condensing

DIMENSIONS		
	Inches	**Millimeter**
Length	24	609.6
Height	3.5	88.9
Width	17.15	435.61

STANDARD ACCESSORIES	
TAC2678	Rack Mounting Ear
MCC05	Management and console cabling

PRELIMINARY POWER CONSUMPTION	
Typical	Maximum
460W	1090W

ORDERING INFORMATION	
Part Number	**Description**
T2668-ZR1-AC	Tahoe 2668-ZR1 switching appliance supporting twenty-six (26) ports of 400G, six (6) ports of 100G, dual AMD 64-Core CPUs (3.675GHz maximum clock), 16x64GB RAM (3200mt/s), 2x1TB NVME SSD storage, redundant AC power supplies and field replaceable fans.
T2668-ZR1-DC	Tahoe 2668-ZR1 switching appliance supporting twenty-six (26) ports of 400G, six (6) ports of 100G, dual AMD 64-Core CPUs (3.675GHz maximum clock), 16x64GB RAM (3200mt/s), 2x1TB NVME SSD storage, redundant DC power supplies and field replaceable fans.
T2668-ZR1-AC2	Tahoe 2668-ZR1 switching appliance supporting twenty-six (26) ports of 400G, six (6) ports of 100G, 16x64GB RAM (3200mt/s), 2x1TB NVME SSD storage, redundant AC power supplies and field replaceable fans.
T2668-ZR1-DC2	Tahoe 2668-ZR1 switching appliance supporting twenty-six (26) ports of 400G, six (6) ports of 100G, 16x64GB RAM (3200mt/s), 2x1TB NVME SSD storage, redundant DC power supplies and field replaceable fans.

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 1/10/25/40/100/200/400 Gigabit Ethernet networking solutions. For 27 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 Fremont, CA with satellite offices in Hong Kong and Europe.

Address: 48430 Lakeview Boulevard, Fremont, CA 94538
Phone: 408-441-9341
Fax: 815-364-0888
Email: sales@interfacemasters.com
Web: www.interfacemasters.com

Interface Masters TECHNOLOGIES
Innovative Network Solutions