

Niagara 2532C

White Box Switch

32 ports of 100G QSFP28

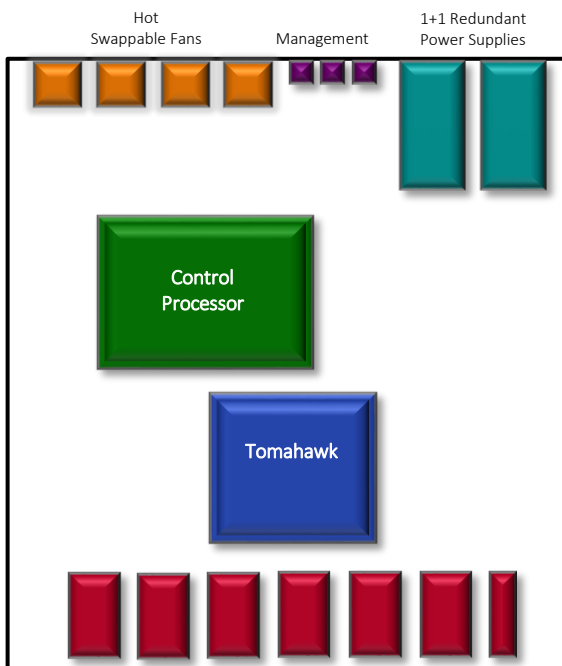
Product Brief

OVERVIEW

Niagara 2532C White Box Switch is a flexible 100GbE switch system based on Broadcom's StrataXGS Tomahawk switch. The system is targeted to be used as 100GbE Top Of Rack or End of Row Switches. It is designed to be compatible with 19" Enterprise Rack specifications and the 21" OCP Open Rack specification.

The Niagara 2532C platform is designed for maximum flexibility in a 1U form factor. This is a platform that can support multiple CPU and mass storage options including x86 and PowerPC. Customization services are offered.

Software configurations include white box with ONIE, complete SDK for custom development, Open Flow 1.3 and several software partner solutions. Interface Masters and our software partners provide comprehensive technical support for multiple engagement scenarios. Interface Masters proudly designs and manufactures our products in the USA. For a complete list of factory options and services, please contact Interface Masters.



32 x 100G QSFP28

Niagara 2532C Functional Block Diagram

PRODUCT FEATURES

Broadcom Tomahawk StrataXGS

- 32 ports of 100GbE QSFP28

Multiple Control plane processor options

- x86 and PowerPC
- MOQ may apply for certain options*

Dual redundant power supplies

- 1+1 redundant, hot swappable power supplies
- AC and DC options

Field replaceable fans

- 4 dual fan assemblies
- Air flow front to back or back to front

Management Interfaces

- RS232 CLI interface
- 10/100/1000 management port
- Optional USB Port

Lower OPEX with high efficiency power conversion

- High efficiency internal components
- High efficiency AC/DC and DC/DC power supplies

Niagara 2532C is designed for enterprise class data center operations. The many configuration options of Niagara 2532C offer the opportunity to create a unique product solution. Interface Masters' long history of providing high reliability

systems was leveraged in the design. High efficiency power conversion is utilized in all aspects of the design to provide lower capex. Interface Masters' Boardkeeper utility is a set of Linux drivers that provides all the necessary interfaces for hardware configuration and system health verification. Boardkeeper greatly assists our software partners and customer software developers to quickly get to the point of focusing on their value add without having to worry about hardware dependent configuration and verification.

Interface Masters and our software partners provide Enterprise and Carrier grade complete solutions for Open Flow and L2-L4 switching and routing. The advent of SDN and disaggregation in the data center is well underway. Interface Masters is your solid partner in the process. Embedded and server class standard Linux distributions form a foundation for network operating systems. Interface Masters' modular, pluggable form factor for various CPU options make this platform highly flexible. Interface Masters' tradition of supporting tier one OEMs ensures that any partner we work with will have a timely and successful project. Our standard products are available under the Niagara brand name. Private labeling and full customization services are available and based upon the technology in our standard products.

SOFTWARE DEVELOPMENT AND SUPPORT

White Box

- ONIE – Open Network Install Environment
- Linux – Debian and Ubuntu
- SDK – Broadcom

Interface Masters Boardkeeper

- Set of Linux drivers to manage all system level hardware (greatly assists software development)

Network Operating System

- Broadcom ICOS / OFDPA
- IPInfusion OcNOS
- Pica8 PicOS
- Custom development and support

ENVIRONMENTAL

Operating Temperature	0° to 40°C
Operating Humidity	5% to 95%
Typical Power – Direct Attached Cable	211 Watts
Maximum Power – Direct Attached Cable	282 Watts
AirFlow	100 lfm

DIMENSIONS

	Millimeter	Inches
Length	495.3	19.5
Height	43.7	1.72
Width	438.15	17.25

ORDERING INFORMATION

Part Number	Description
Niagara 2532C	32 ports 40G QSFP28
Options*	<ul style="list-style-type: none"> • Control Processor • Memory • Mass Storage • 1+1 redundant AC/DC and DC/DC power supplies • Custom configurations <p><i>* Contact Interface Masters for complete part numbers.</i></p>



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.