

## Niagara 2932XL

OCP White Box Switch

32 Ports of 40G QSFP+

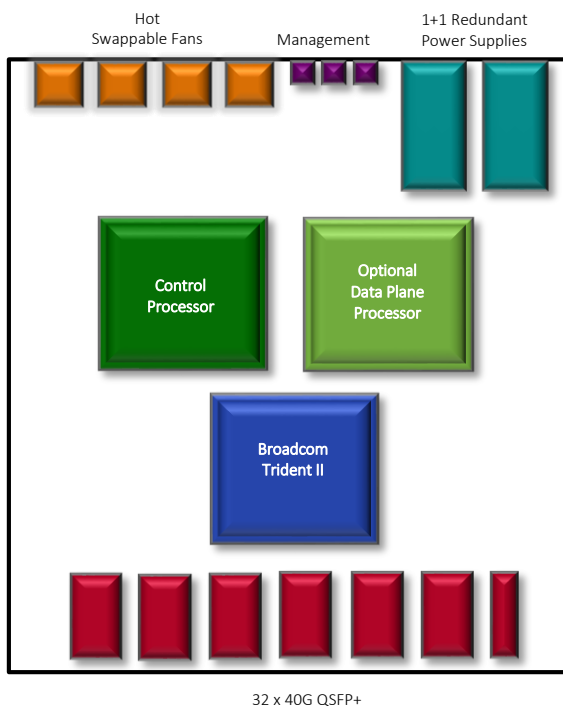
Product Brief

### OVERVIEW

Niagara 2932XL OCP White Box Switch is a flexible 40GbE switch system based on Broadcom's StrataXGS Trident II switch. The system is targeted to be used as 40GbE End of Row or Spine Switches. It is designed to be compatible with 19" Enterprise Rack specifications.

The Niagara 2932XL 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, L2-4, Open Flow 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.



Niagara 2932XL Functional Block Diagram

### PRODUCT FEATURES

- Broadcom Trident II StrataXGS
  - 32 ports of 40GbE QSFP+
- Multiple Control plane processor options
  - x86 and PowerPC
- Dual redundant power supplies
  - 1+1 redundant, hot swappable power supplies
  - AC and DC options
- Field replaceable fans
  - 4 dual hot swappable 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 2932XL is designed for enterprise class data center operations. The many configuration options of Niagara 2932XL 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 is a set of Linux drivers and utilities 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, L2-L4 switching and routing, and MPLS. 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



## ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of Switches, Smart NICS and full custom appliances focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet. For over 20 years, Interface Masters has been providing innovative networking solutions with customization services. Interface Masters is an OCP member and has contributed multiple white box designs to the project while supporting customer SDN development. Interface Masters OCP switches can be modified according to customer requirements and are provided with complete SDK and source code required to support software development. All products are designed and manufactured in San Jose, CA.

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 Innovative Network Solutions

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

OPTICAL MODULE POWER CONSUMPTION				
Media	Speed	Mode	Typical Power	Maximum Power
QSFP	40 GE	SR	0.8085	1.155
QSFP	40 GE	LR	2.541	3.63

DIMENSIONS		
	Millimeter	Inches
Length	495.3	19.5
Height	43.7	1.72
Width	438.15	17.25

ORDERING INFORMATION	
Part Number	Description
Niagara 2932XL	32 ports 40G QSFP+
Options*	<ul style="list-style-type: none"> <li>• Control Processor</li> <li>• Memory</li> <li>• Mass Storage</li> <li>• 1+1 redundant AC/DC and DC/DC power supplies</li> <li>• Custom configurations</li> </ul> <p><i>* Contact Interface Masters for complete part numbers.</i></p>