Next Generation 400GbE Tofino 2 Switch

DCS810 (AS9516-32D)

STORDIS
The Open Networking Expert

Edge-corE NETWORKS

The **Edgecore DCS810 (AS9516-32D)** switch is a programmable leaf or spine switch for large scale data centers. Based on the **Intel** (formerly known as Barefoot) **Tofino 2 ASIC** it allows for advanced P4 Programmability.

In a 1RU form factor, the switch provides, amongst others, line-rate L2 switching and L3 routing, deep packet inspection and traffic load balancing.

KEY FEATURES

- 32 x QSFP-DD ports, each supporting 1 x 400 GbE, or 4 x 100 GbE, 8 x 50 GbE, 16 x 25 GbE and 10/40 GbE via breakout cables
- Four programmable packet processing pipelines for 12.8 Tbps of total bandwidth
- Layer 2 or Layer 3 forwarding of 12.8 Tbps (full duplex)
- Pre-Loaded with Open Network Install Environment (ONIE)
- P4 Programmability

USE CASES

- Deploys as leaf or spine switch supporting 25/50/100 GbE to servers, with 100 or 400 GbE uplinks.
- Deploys as spine switch supporting 100 or 400 GbE leaf and spine interconnects.

KEY COMPONENTS

- Intel (Barefoot) Tofino 2 BFN-T20-128Q ASIC
- Intel Pentium D-1517 (4 cores @1.6GHz) CPU
- 8GB SO-DIMM RAM
- 128GB M.2 SSD Storage

SUPPORTED SOFTWARE

Open Network Linux

SONiC

onie

P4

IN STOCK!*

*As of June '22 we have some stock available with more units incoming by the end of July '22!

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STORDIS P4 Switch Services with Certified Engineer

DESCRIPTION

Installation Service for P4 Switches with Certified Engineer to Help with initial P4 switch setup, P4 SDE profiles build, NOS options, gRPC usage, Packet Test Framework and more. Depending on how experienced the Engineer is the early stages can be skipped and we can move straight to the connection and set-up phase.

SWITCHON P4 SERVICE (3 HOUR COURSE)

The goal of this course is to take the engineer from un-boxing the switch to running a first test application, while demonstrating the major features of their first exposure to a P4 development platform.

COURSE CONTENT

- Unboxing and checking parts
- Racking and connecting
- Console connection and first start-up
- Building the Barefoot SDE
- bf_switchd startup
- Compiling and running a P4 test application

SWITCHON+ P4 SERVICE (6 HOUR COURSE)

The goal is to take a deeper look at important aspects of a P4-based system and its applications development, whilst bringing the Engineer from zero experience with this environment to running a real-world P4 application.

COURSE CONTENT

- SwitchON P4 3 Hour Course + additionally:
- SDE building with P4 profile selection
- NOS options
- Packet Test Framework & other testing options
- gRPC usage & pktgen real-application usage
- Connectivity

CREDO HiWire SHIFT AEC | 400G QSFP-DD to 4x100G QSFP28 AEC

DESCRIPTION

The 400G cable breaks out from one **400G (8x56G-PAM4) QSFP-DD** end into four **100G (4x28G-NRZ) QSFP28** ends with built-in gearbox feature. The use and replacement of CREDO HiWire SHIFT AEC (Active Electrical Cable) is simple and straightforward as it adopts standard QSFP-DD type 2/QSFP28 form factors and complies to MSA specifications

Get in Touch For More Information

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