

The Worlds First White Box OLT

November 2017



Accton and Edgecore

- Leading Network ODM
- > 3,300 employees worldwide, > 700 network engineers
- High volume manufacturing facilities in China and Taiwan



- Go-to-market subsidiary of Accton
- Full portfolio of traditional and open network products
- Leading contributor of network designs to OCP



The Worlds First White Box OLT

A better description could be "The Worlds First Open Disaggregated OLT"



ASFVOLT16: 10G OLT

- Disaggregated 10G PON OLT for R-CORD infrastructure
- XGS-PON: Conforms with AT&T XGS-PON Spec in OCP Telco Working Group
- 16 x XFP 10G PON
- 4 x QSFP28 100Gb
- Broadcom DNX Qumran switch silicon, Broadcom Maple PON silicon
- Agent for interface to vOLT-HA virtual OLT control software on servers in R-CORD
- Samples Q2 2017: Production Q4 2017





Open Disaggregated OLT

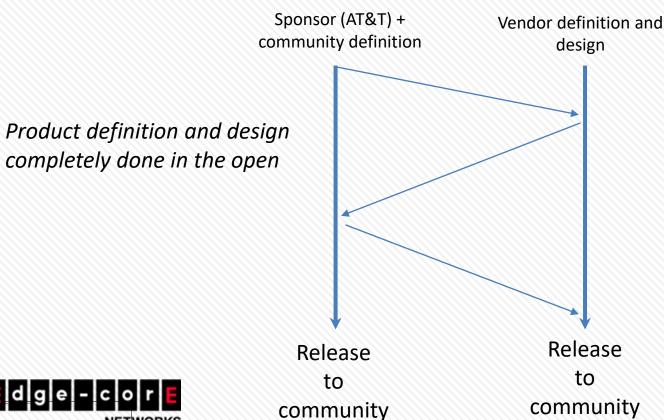
"Open"

Open Indicates Open Source software components **AND** Open Source hardware design



Open Hardware Design





Open Source Design Contributions to OCP



OCP-ACCEPTED™ DC and Telecom Products

1G Rack Mngmt Switch Helix4
10G TOR Switch Trident II
40G Spine Switch Trident II
100G TOR & Spine Switch Tomahawk
100G TOR & Spine Switch XPliant
10G/100G Edge Switch Qumran

Design Contributions

■ 64 x 100G Spine Switch	Tomahawk II
• 25G TOR Switch	Tomahawk
■ 100G OMP1600 Chassis	Tomahawk
■ 100G OMP800 Chassis	Tomahawk

Open Rack Switch Adapter

Partner Designs, Edgecore Product

Wedge40-16XFacebook

Wedge100-32X Facebook

Wedge100BF-32X Barefoot

Wedge100BF-65X Barefoot

TELECOM INFRA PROJECT

Design Contribution

Nov 8, 2017

AS7816-24C

AT&T Spec, Edgecore Design Contribution

ASFvOLT16 10G OLT BCM Qumran & Maple

OCP-ACCEPTEDTM Access Products

■ 1G PoE Switch Helix4

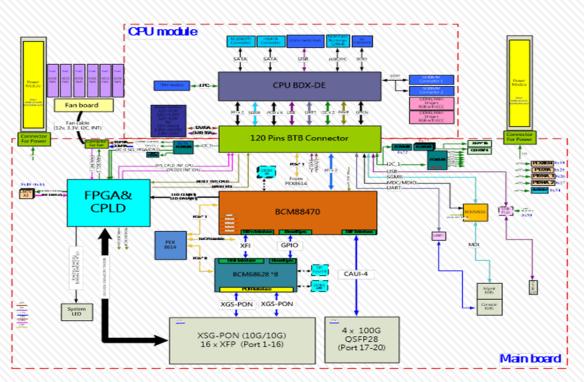
■ 802.11ac Wave1 Wi-Fi APs BCM

Design Contributions

802.11ac Wave2 Wi-Fi APs QCA



ASXvOLT16 Hardware Overview







"The Worlds First Open Disaggregated OLT"

- "Disaggregated"
- Disaggregated indicates the software has been somehow separated from the hardware
 - Does not necessarily indicate "Open Source"
 - Does not indicate where this separation has taken place



Enabling **Deliverables**

Diagnostics



Open BMC Vendor BMC





RedFish HW Mgr API



sFlow Agent

Disaggregated Software

1. Commercial Disaggregated Software Partners

Enterprise

Packet Broker

Data Center Fabric

Service Provider



ixia

BROADCOM®



infusion"



NETSCOUT















Brain4Net





2. Open Source Software



SONIC







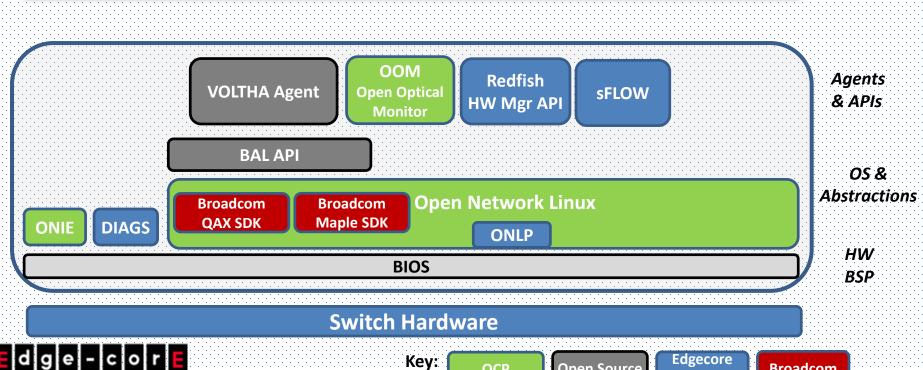




Edgecore vOLT Software for CORD

NETWORKS





OCP

Open Source

Open Source

Broadcom

Open Disaggregated OLT

Community Developed!

ASXVOLT16 OLT Open Control Software Open Imbedded Software Open Hardware





Thank You