OCP Contributions

An Accton Group Company
August 2019
Updates To Previous Specification(s)

- Overview of Deutsche Telekom OpenGPON-OLT Specification
  - Overview of Edgecore ASGvOLT-64 product specification and design contribution
- Overview of Edgecore AS7926-40/80X Aggregation Router Specification
  - Overview of Edgecore AS7926-80X product specification and design contribution
Deutsche Telekom OpenGPON-OLT Specification

• Specifies 32 port and 64 port GPON OLT versions
• Specifies Central Office temperature conditions 0-40C
• Suggests switch silicon and GPON MAC to be used
  • Broadcom Qumran-AX and Maple

Figure 10 - Main system Block diagram (64 port version)
Edgecore ASGvOLT-64

- 64 port GPON OLT compliant to Deutsche Telekom OpenGPON-OLT
  - 64*SFP GPON, 2*QSFP28, 8*SFP28
- Support for ONF SEBA software solution
- Support for commercial OLT NOS options
Edgecore ASGvOLT-64
Design Contribution Contains:

• **HW Components:**
  • Schematics
  • Allegro .brd Files
  • Gerber Files
  • Mechanical STEP Files
  • Mechanical Assembly Drawings
  • Complete Bill of Materials
  • CPLD Code in Binary and Source format
  • Test Plan

• **Software Components:**
  • ONIE
  • Open Network Linux
  • OCP Baseline Redfish Profile
  • Open Optical Monitoring (OOM)
  • Open OLT Driver (ONF SEBA)
Overview of Edgecore AS7926-40/80X Aggregation Router Specification

- Initial draft specification called out two configurations based upon Broadcom Jericho 2 silicon
- 40*100G
- 80*100G variants
- NEBS 3
- Modular CPU
- BMC support
Edgecore AS7926-80X

• Inputs taken from initial draft specification and incorporated into AS7926-80X specification
• 80*100G switch based on Jericho 2
• 3RU
• NEBS Level 3 support
  • Removable dust filters, 0-55C
• Support for expandable TCAM entries and statistics
Edgecore AS7926-80X

- 80*QSFP28
- 2*SFP+
- Console Management
- Micro USB
- 1PPS
- Removable Dust Filters
Edgecore AS7926-80X
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THANK YOU