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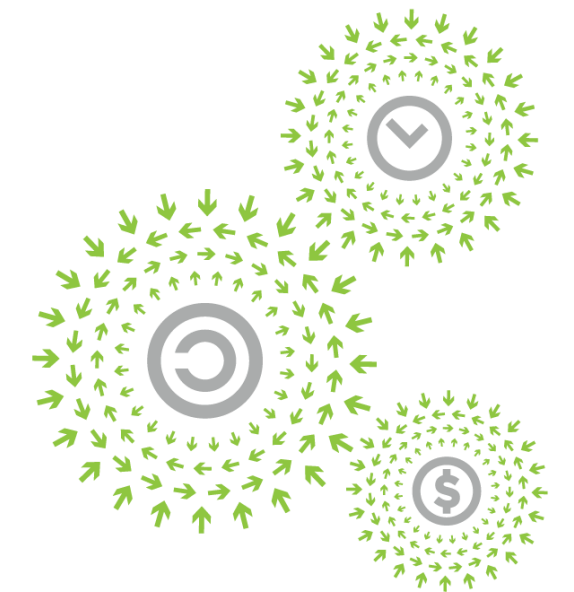




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# Update on Contributions From Edgecore Networks

Jeff Catlin VP Technology Edgecore Networks



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# Agenda



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- Product updates based on previous specifications
  - Overview of Deutsche Telekom OpenGPON-OLT specification
  - Overview of Edgecore ASGvOLT-64 product and design contribution
  - Overview of Edgecore AS7926-40/80X Aggregation Router Specification
  - Overview of Edgecore AS7926-80X and design contribution
- New contribution overview
- Community Collaboration



Product  
Recognition



Design Files



Specifications



# 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

Main Block Diagram (64 port version)

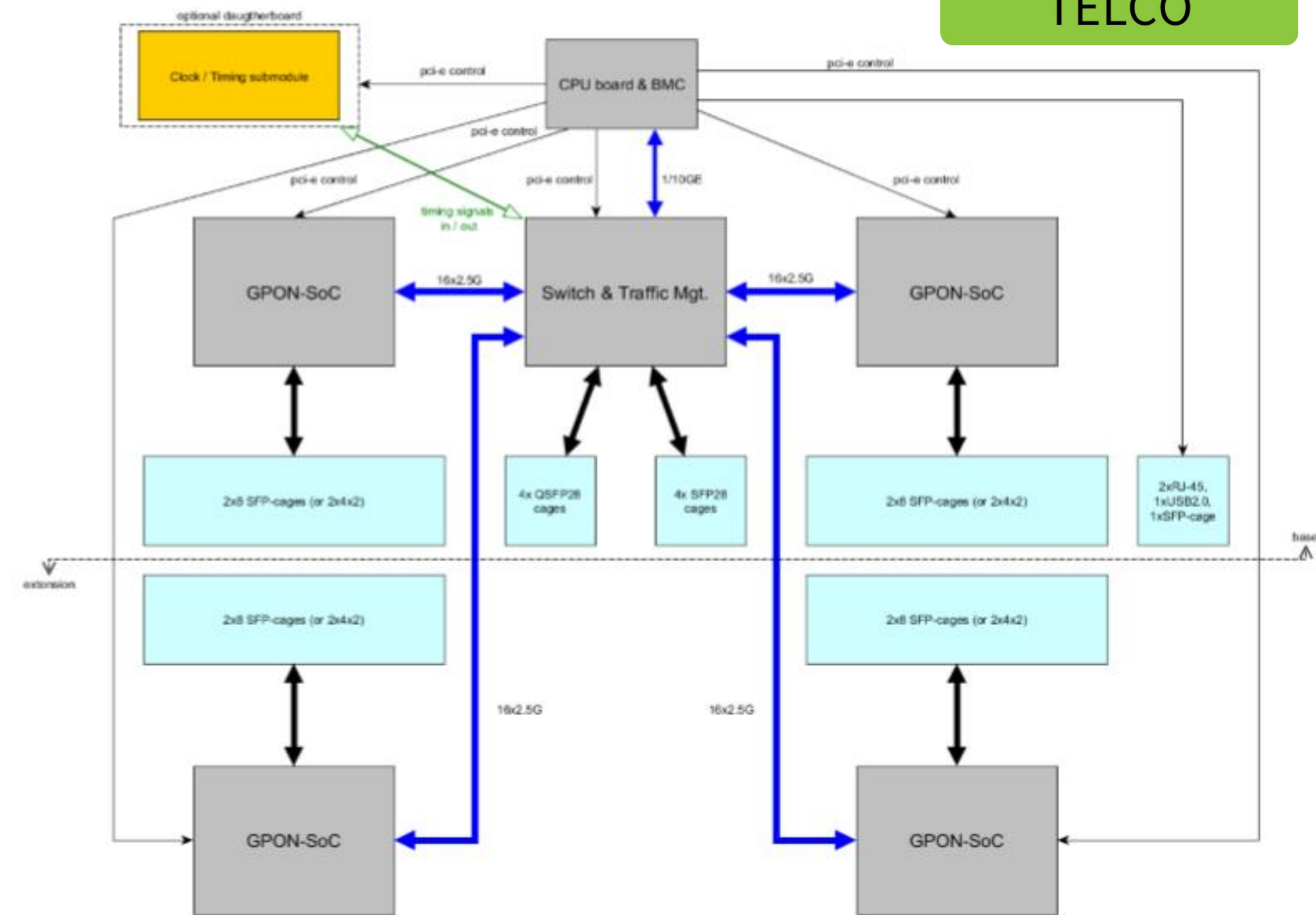


Figure 10 - Main system Block diagram (64 port version)

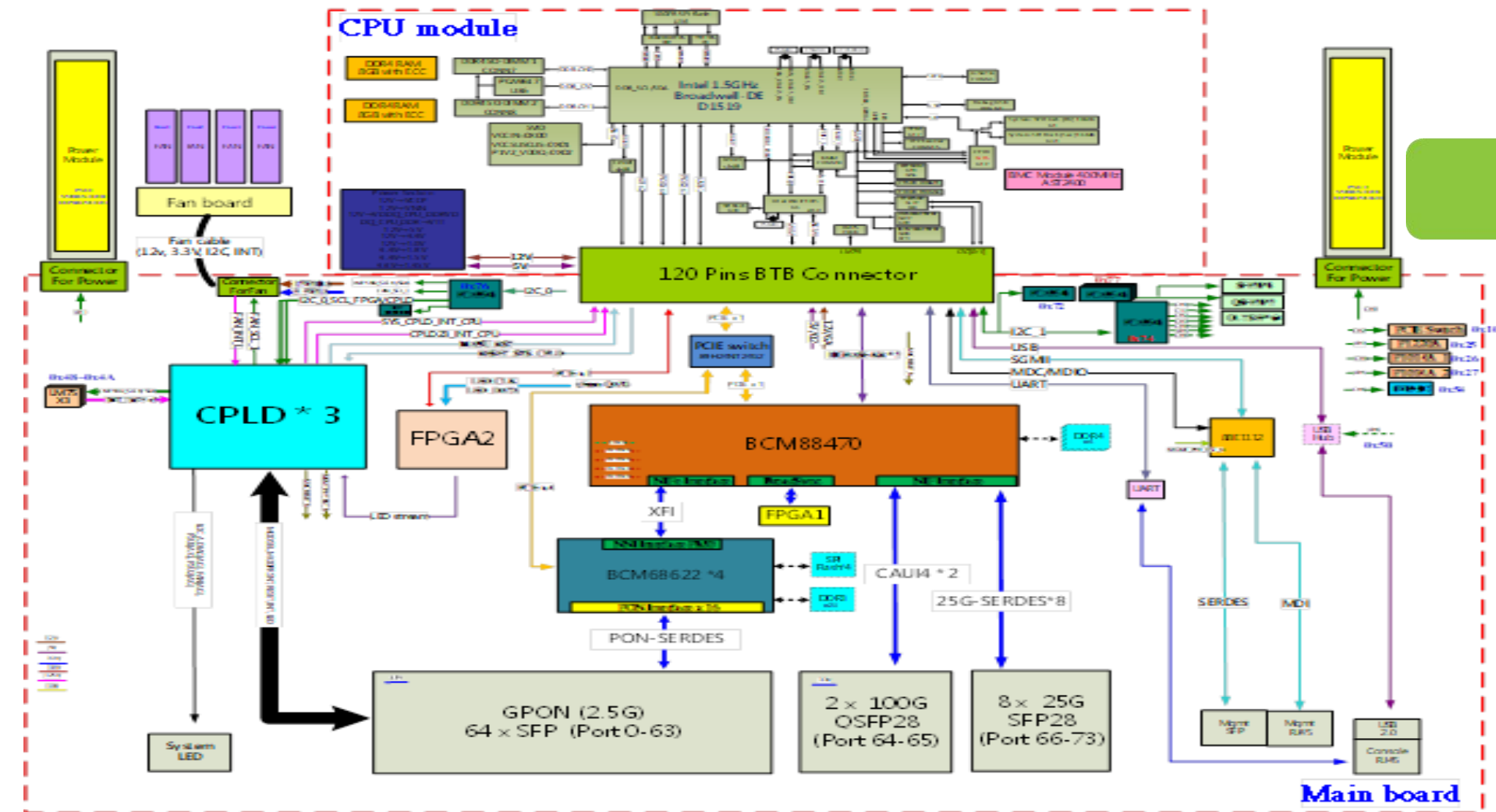


# Edgecore ASGvOLT-64 Contribution



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- 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



64\*SFP GPON



2\*QSFP28 8\*SFP28

SFP/RJ45 Management Console USB

# Edgecore ASGvOLT-64 Contribution



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## 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
- Open Optical Monitoring (OOM)
- Open OLT Driver ( ONF SEBA)



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# Edgecore AS7926-40/80X Aggregation Router Specification

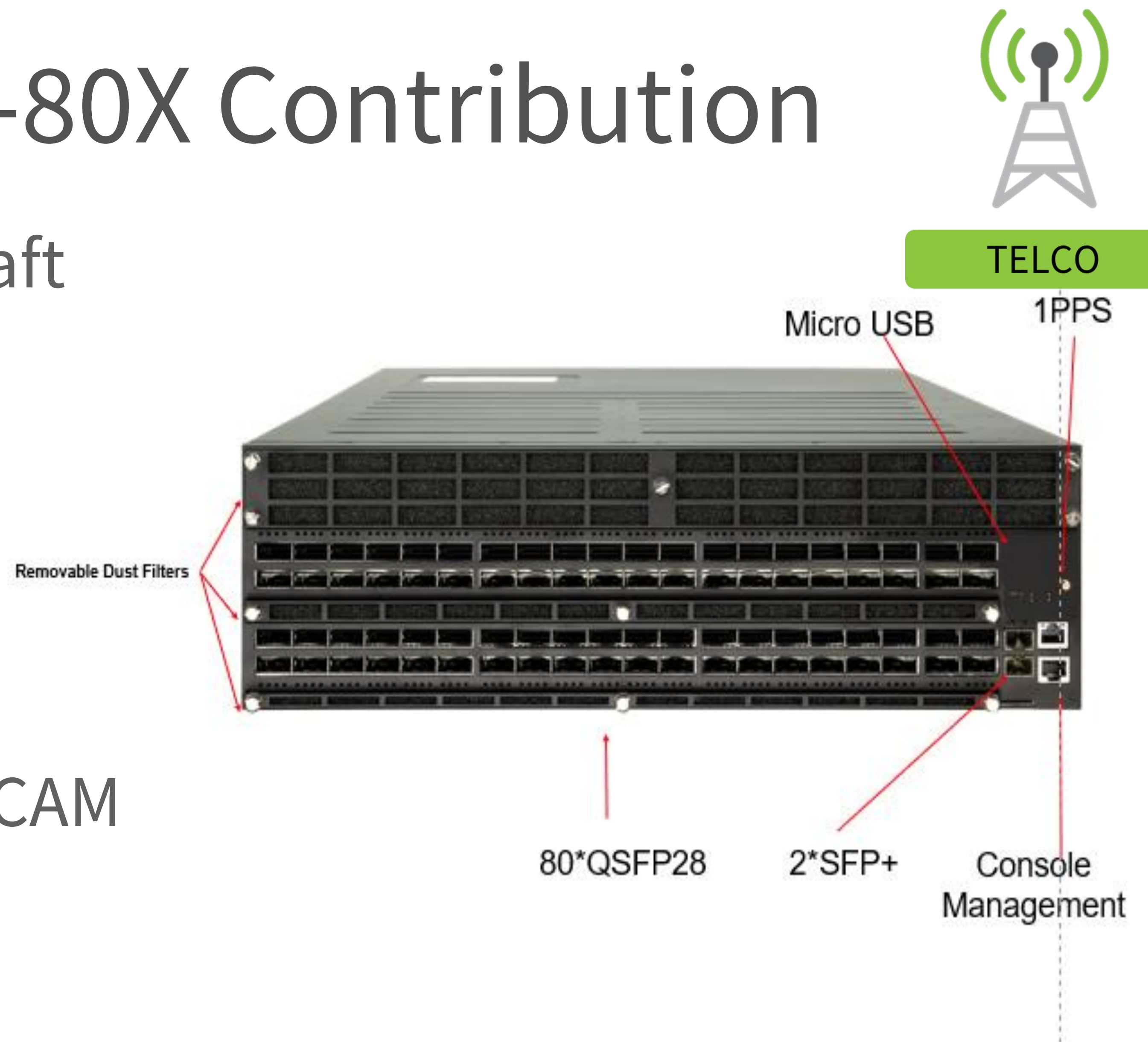


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- Initial draft specification called out two configurations based upon Broadcom Jericho 2 silicon
  - 40\*100G
  - 80\*100G variants
  - NEBS 3
  - Modular CPU
  - BMC support

# Edgecore AS7926-80X Contribution

- Inputs taken from initial draft specification review
- 80\*100G switch based on Broadcom Jericho 2
- 3RU NEBS Level 3 support
  - Removable dust filters, 0-55C
- Support for expandable TCAM entries and statistics





# Edgecore AS7926-80X Contribution



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## Design Contribution Contains:

### HW Components:

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### Software Components:

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# Collaboration Between Communities



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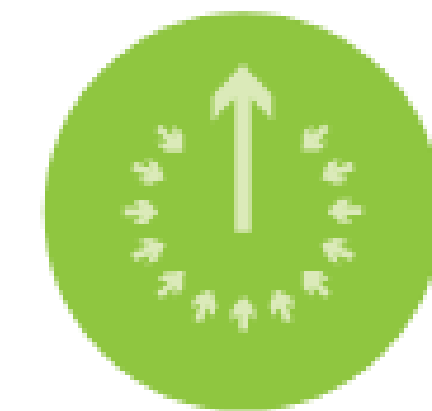
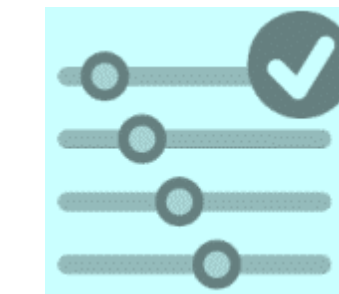
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Compute Project



TELECOM INFRA PROJECT



**E**dge-**c**ore**E**  
NETWORKS



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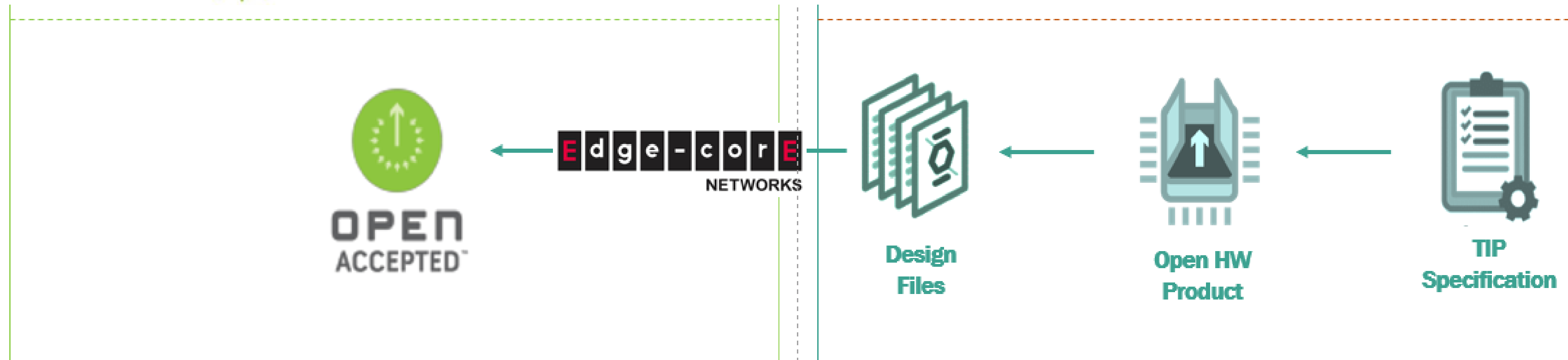
AS7316-26XB Open Cell Site Router



# Collaboration Between Communities



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Edgecore AS7315-27X Disaggregated Cell Site Gateway (DCSG)

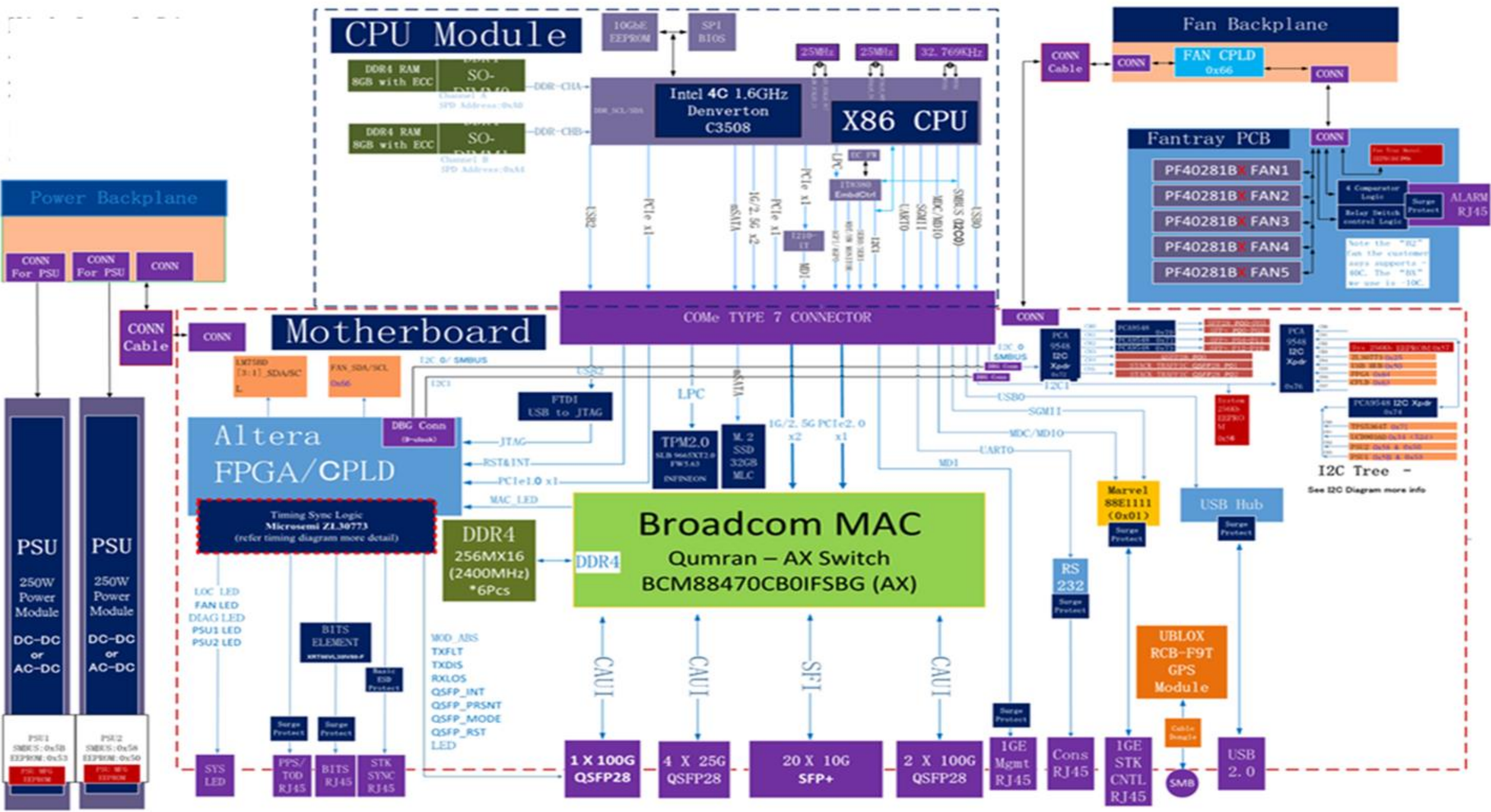
Specification available on OCP Telco wiki: <https://www.opencompute.org/documents/edgecoreas7315-27xocp-pdf>



# Edgecore AS7315-27X Contribution



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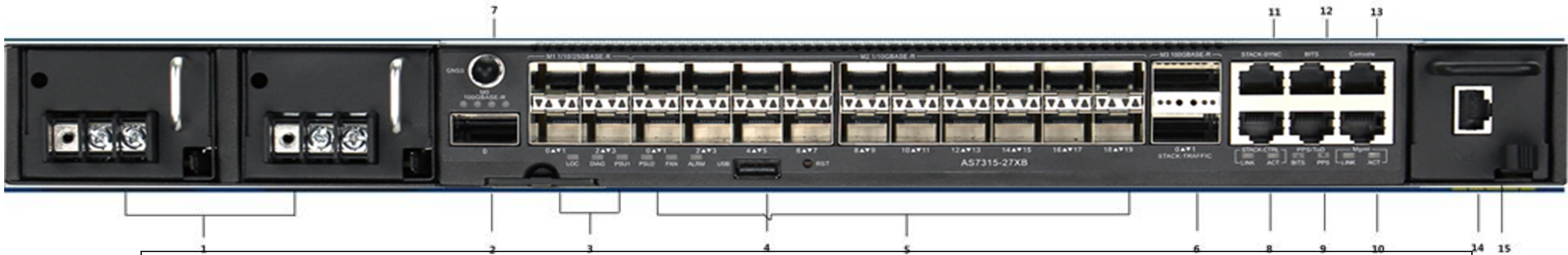




# Edgecore AS7315-27X Contribution



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Description	
1- Power Supply	9- PPS-Tod RJ45 port
2-100 Gigabit Ethernet QSFP28 ports	10- Management Ethernet port (MGMT)
3-25 Gigabit Ethernet SFP28 ports	11- Stack-Sync RJ45port
4-USB storage port	12- Building-Integrated Timing System port
5-10 Gigabit Ethernet SFP+ ports	13-RJ45 console port
6-100 Gigabit Stacking QSFP28 ports	14-Fan Tray
7- GPS antenna port	15-Alarm RJ45 port
8-Stack-CtrlRJ45 port	

# Comparison AS7316-26X / AS7315-27X



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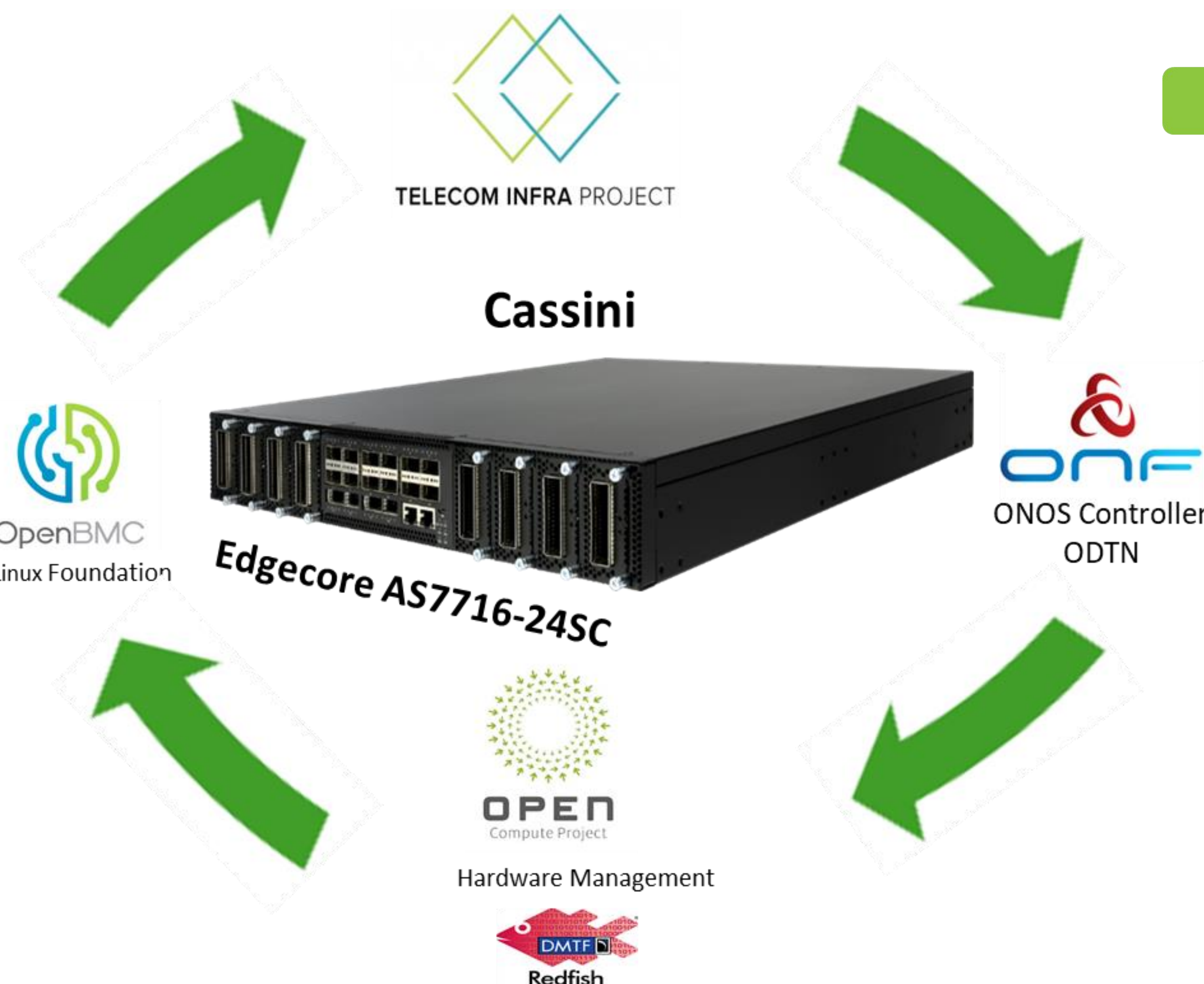
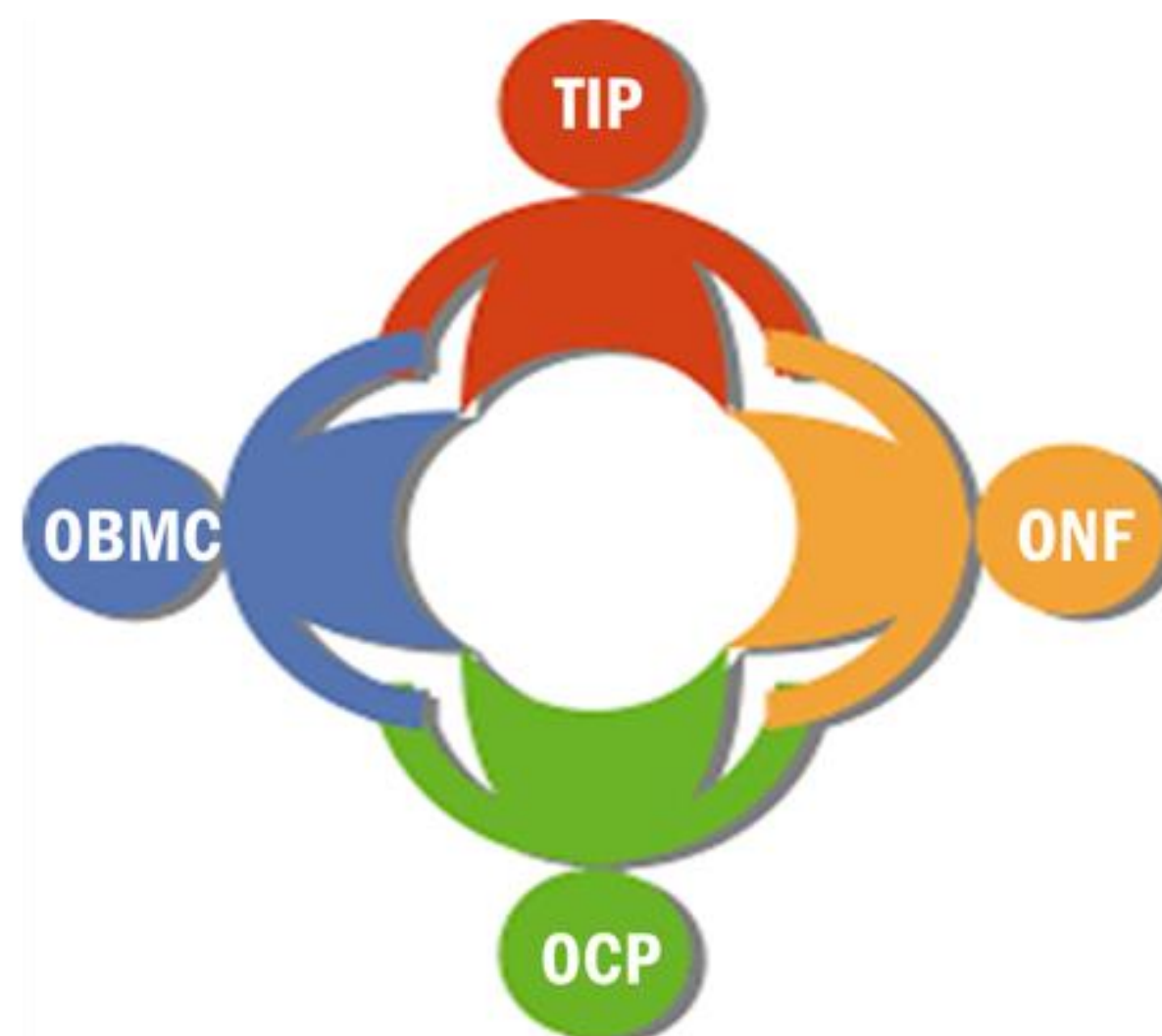
	AS7316-26X	AS7315-27X
Number of 10G SFP+ ports	16	20
Number of 25G SFP28 ports	8	4
Number of 100G QSFP28 ports	2	3
Stacking support	No	Yes
CPU	8 Core Xeon	4 Core Atom
Airflow	Front to Back	Side to Side
1PPS in/out ports	Yes	No
10 MHz in/out ports	Yes	No
Micro USB Console port	Yes	No
Alarm Port	No	Yes
BMC Support	Yes	No
All serviceable items located on front	No	Yes



# Collaboration Between Communities



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# Call to Action

- If you're a vendor or operator join us and participate in the OCP Telco workgroup(s) !

<https://www.opencompute.org/projects/telco>

- If you're a consumer of products shop for your products on the Marketplace <https://www.edge-core.com/products.php>

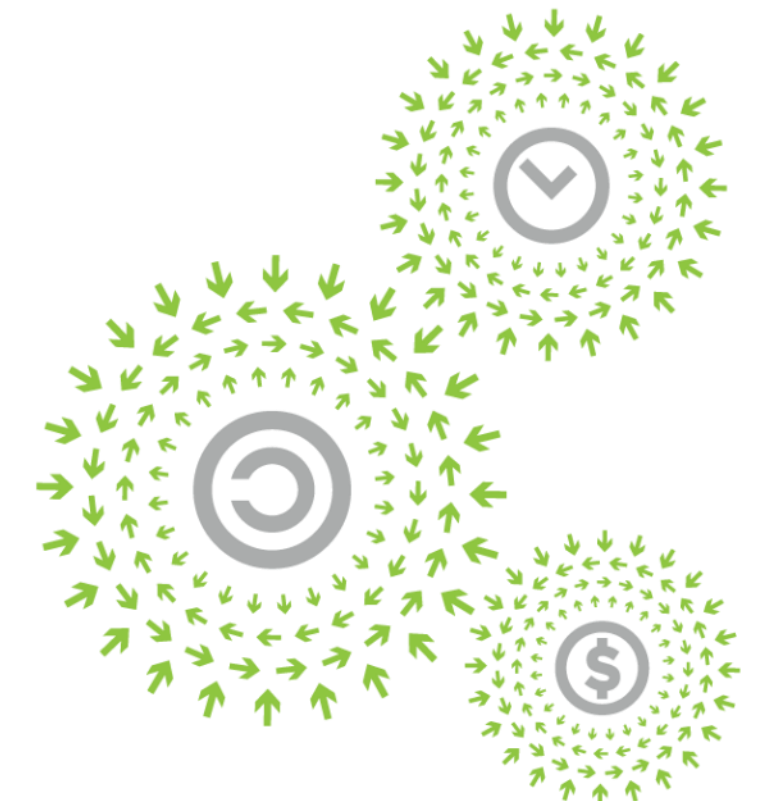
- If you are currently engaged in OCP look at getting engaged in a complementary Open Community!



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OCP Regional Summit  
26–27, September, 2019