

OCP 101: What is OCP?

How Can Your Organization *Consume, Collaborate, and Contribute.*

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What is the Open Compute Project (OCP)?

- Industry non-profit focused on establishing an open source HW ecosystem for the Data Center market
- Founded in 2011 by Facebook, Rackspace, Intel - now 195 members and growing
- Current board member companies are Facebook, Rackspace, Intel, Microsoft, Goldman Sachs
- 140+ IP contributions accepted to date from 22 different companies with represents more 170 Products**, includes greenfield and brownfield solutions
- Technology focus driven by board defined scope and community defined technologies – we do not try to be all things to all people

**Includes retired and active product skus



OCP – Yesterday, Today, Tomorrow

Yesterday

- Initial focus leveraged Facebook designs, enabled board member companies such as Goldman Sachs and Rackspace and others to leverage the designs to implement in their existing data centers – giving them access to technologies before they could have without OCP
- Robust community structure developed – currently more than 4000 engineers involved in 9 different projects and Incubation Committee
- Innovation increased and focus shifted to value-added design elements
- Open source HW environment established in industry

Today

- Expanding into markets beyond hyper-scale where IT is core to the business, such as financial, telco, hosting markets – and broadening solutions to address needs of these markets
- Establishing Adoption Ecosystem to enable deployment of innovation into industry

Tomorrow

- Increased emphasis on integration of SW and HW and complete solution ecosystem
- Emphasis on growth in both Innovation AND Adoption
- Continued emphasis on growing and retaining strong community

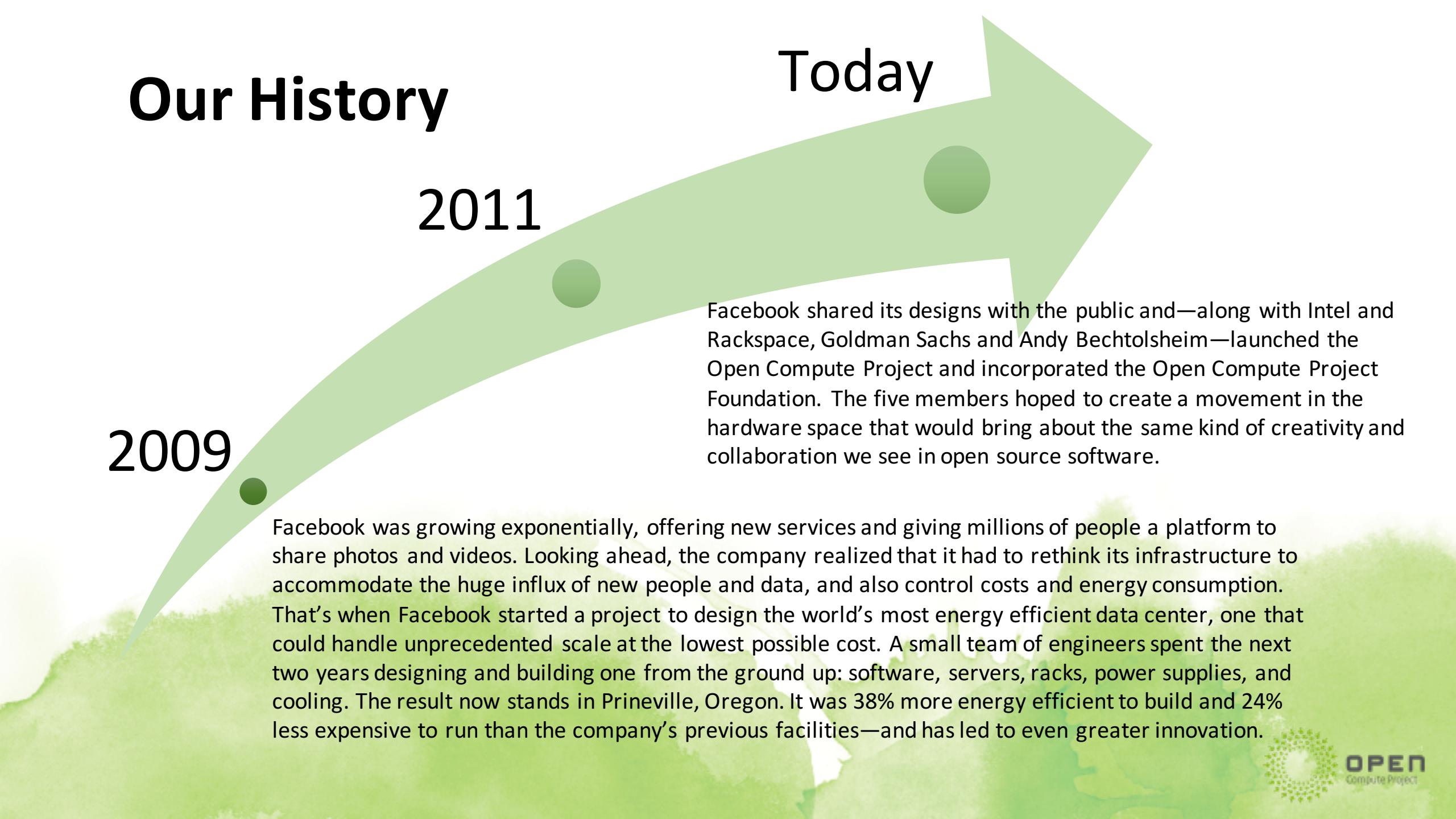
How it all began

Our History

2009

2011

Today



Facebook was growing exponentially, offering new services and giving millions of people a platform to share photos and videos. Looking ahead, the company realized that it had to rethink its infrastructure to accommodate the huge influx of new people and data, and also control costs and energy consumption. That's when Facebook started a project to design the world's most energy efficient data center, one that could handle unprecedented scale at the lowest possible cost. A small team of engineers spent the next two years designing and building one from the ground up: software, servers, racks, power supplies, and cooling. The result now stands in Prineville, Oregon. It was 38% more energy efficient to build and 24% less expensive to run than the company's previous facilities—and has led to even greater innovation.

Facebook shared its designs with the public and—along with Intel and Rackspace, Goldman Sachs and Andy Bechtolsheim—launched the Open Compute Project and incorporated the Open Compute Project Foundation. The five members hoped to create a movement in the hardware space that would bring about the same kind of creativity and collaboration we see in open source software.

OCP Organization

OCP Incubation Committee

Co-Chairs:

Aaron Sullivan (Facebook)
Tom Anschutz (AT&T)
* James Jau (QCT)
* Mark Shaw (Microsoft)
* Doug Bone (Hyve Solutions)
* Bob Ogrey (AMD)
* John Leung (Intel)
* Phil Pokorny (Penguin)
* Rob Bunger (Schneider Electric)
* Jeff Caitlin (Edgecore Networks)

OCP Foundation Structure

Rocky Bullock

Chief Executive Officer

OCP Foundation Board

* Chairman/President – Mark Roenigk (Facebook)
* Joshua Matheus, (Goldman Sachs)
* Jason Waxman (Intel)
* Bill Laing (Microsoft)
* Brad Stein (Rackspace)
* Andy Bechtolsheim (Individual)
* Rocky Bullock (non-voting)

Archna Haylock

Community Director

Michael Schill

Membership

Steve Helvie

VP Channel Development

John Laban

EMEA

Bill Carter

Chief Technology Officer

Rajeev Sharma

Director of Software & Technologies

Dirk Van Slyke

Director
Marketing, Communications & Events

Kali Burdette

Meeting & Event Manager

OCP Projects

Membership

A Great Place to Collaborate &
Contribute....

How to Join



5 Easy Steps

Step 1 – Pick a Membership Level

Step 2 – Sign a Membership Agreement & Promote OCP

Step 3 – Join a Project Group

- Go to the OCP Project Page
- Select a Project that meets your interests
- Subscribe to the Mailing List
- Add the Project Meeting Calendar
- Join the Conversation!

Step 4 – Make a Contribution

Step 5 – Adopt OCP Ecosystem

Corporate Membership Tiers

	Tier	Financial	Contribution	Sponsorship	Benefits
	Community	\$2500	none	none	<ul style="list-style-type: none"> Eligible for PL Position, pending contribution from company Eligible for Solution Provider Program Product eligible for OCP Accepted™ Product Recognition
	Silver	\$60,000	none	1 event*	<ul style="list-style-type: none"> Eligible for 1 PL or IC Position. 1 Voting Key 10% Discounts on Summit Sponsorship Eligible for Solution Provider Program Products eligible for OCP Accepted™ or OCP Inspired™ Product Recognition Eligible for 1 Speaking Engagement on behalf of OCP.

* Events include engineering workshops, plug-fests, seminars, technology days, etc. that OCP conducts independently or in conjunction with a conference or partner. The estimated value of the sponsorship for each event is expected to be \$5,000 USD. Sponsorship support could be hosting venue, services or promotional items.

Corporate Membership Tiers

	Tiers	Financial	Contribution	Sponsorship	Benefits
	Gold	\$50,000	1 Contribution*	2 Events**	<ul style="list-style-type: none"> Eligible for 2 PL or IC Positions. 2 Voting Keys 15% Discounts on Summit Sponsorship Eligible for Solution Provider Program Products eligible for OCP Accepted™ or OCP Inspired™ Product Recognition Eligible for 2 Speaking Engagement on behalf of OCP.
	Platinum	\$40,000	2 Contributions*	3 Events**	<ul style="list-style-type: none"> Eligible for 3 PL or IC Positions. 3 Voting Keys 20% Discounts on Summit Sponsorship Eligible for Solution Provider Program Products eligible for OCP Accepted™ or OCP Inspired™ Product Recognition Eligible for 3 Speaking Engagement on behalf of OCP.

* Contribution Opt-Out Option available

** Events include engineering workshops, plug-fests, seminars, technology days, etc. that OCP conducts independently or in conjunction with a conference or partner. The estimated value of the sponsorship for each event is expected to be \$5,000 USD. Sponsorship support could be hosting venue, services or promotional items.

So many ways to contribute....



Specifications - can be submitted without design files



Design Files*



Products for OCP Product Recognition Program



Reference Architectures* - such as software validations, certifications



Tested Configurations of OCP Products (HW/SW)



*Must be based on a current approved specification

Promote OCP!

Your Membership Directory

The screenshot shows the Edgecore Networks website. At the top, there's a navigation bar with links for PRODUCTS / SOLUTION / CASE STUDIES / SUPPORT / PARTNERS / INVESTORS. Below the navigation is a large banner with the text "ACCELERATE INTO OPEN NETWORKING" and "EDGECORE NETWORKS YOUR NETWORK SOLUTION PARTNER". A green oval highlights the "OPEN PLATINUM" logo, which is part of a larger "OPEN Compute Project" badge. The badge also includes "SOLUTION PROVIDER" and "OPEN PLATINUM". The bottom left corner of the banner features a news snippet about a new product launch.

OCP Membership Directory

The screenshot shows the "Membership (Organizational) Directory" page on the Open Compute Project website. The page title is "Membership (Organizational) Directory". It includes a breadcrumb trail: Home > Membership > Membership (Organizational) Directory. A callout box provides contact information for questions about OCP membership. The main content area displays a grid of organization logos categorized by membership level: Platinum. The organizations listed are Alibaba Group, AT&T, CUMULUS, Delta, Deutsche Telekom, Edge-core NETWORKS, ERICSSON, and FACEBOOK. Each organization entry includes its logo, name, membership level (Platinum), and a link to its profile.



Projects

Success through Communication and
Participation

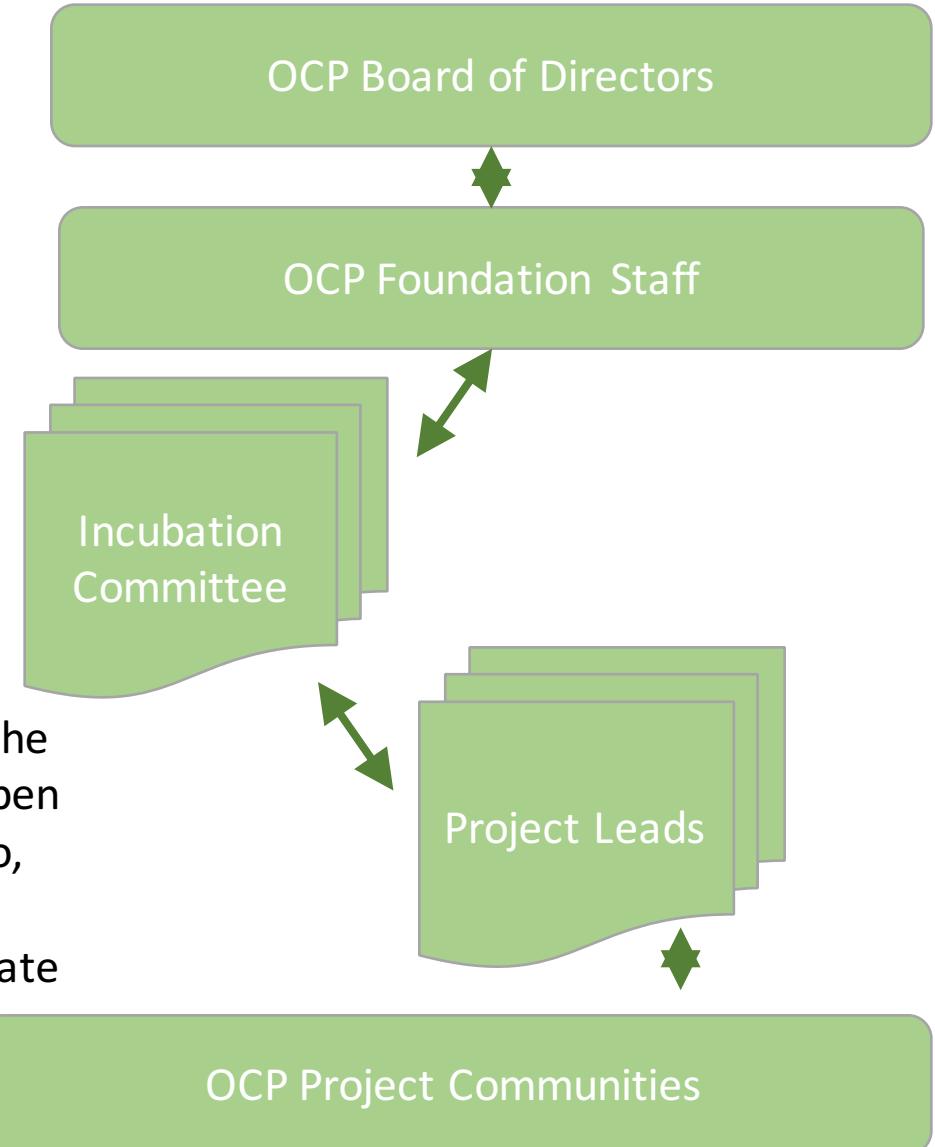
Communication

In order to make OCP easier to **consume** we must **collaborate** and **contribute**.

Open communication (collaboration) is **KEY** to driving OCP adoption (consume) and innovation (contribution).



Community empowers people. We want to the OCP Community to be empowered to drive open hardware into various industries such as Telco, Financial, Enterprise and more. However, in order to do so OCP Members have to participate in the projects and be part of the team.



How to Participate

There are many ways to participate in the OCP Community.

Join

- Project Mailing Lists
- Project Calls

Drive

- Project Focus
- Thought Leadership

Run

- Project Leaders
- IC Committee

Contribute

- Specs/Designs
- RAs/Tested Configs/White Papers/etc.

Attend

- OCP Summit
- OCP Meetings

- OCP Panels
- OCP Engineering Workshops

- OCP Days
- OCP Events

The Project Communities

Compliance and Interoperability

Data Center

Hardware Management

High Performance Computing

Networking

Open System Firmware

Rack & Power

Security

Server

Storage

Telco

Each of these groups have the following:

- Online Meetings (<http://opencompute.org/participate/events/>)
- Wiki Pages (http://www.opencompute.org/wiki/Main_Page)
- Mailing list (<http://lists.opencompute.org/mailman/listinfo>)
- Section on the website (<http://opencompute.org/projects/>)

The Projects and their Markets

OCP Projects Intersection across Technology Verticals

OCP Technology Projects

Networking

Server

Storage

Rack & Power

Telco

Security

Compliance and Interoperability

High Performance Computing

Open System Firmware

Data Center

Hardware Management

OCP IC Members and Project Leads

IC Co-Chairs*: Aaron Sullivan (Facebook) and Tom Anschutz (AT&T)

Data Center

The IC and the Project Leads are elected positions. Together with the Community Director, they

- review all specifications, designs and products
- help set goals and direction for growing community to drive adoption of OCP Hardware
- encourage open collaboration and contribution
- advise on contribution guidelines, project scope and reach
- Promote adoption and contribution back to OCP

* Appointed Positions by the Board of Directors

IC Representative: Robert Burger (Schneider-Electric)
Project Co-Leads: Brevan Reyher (Rackspace)

IC Representative: John Leung (Intel)
Project Co-Leads: Hemal Shah (Broadcom) and Norman James (IBM)

IC Representative: Phil Pokorny (Penguin)
Project Lead: Adi Gangidi (Rackspace), Steven Roberts (IBM)

IC Representative: TBD (Incubation)
Project Co-Leads: Gundrala Goud (Microsoft) and Ron Minnich(Google)

IC Representative: Mark Shaw (Microsoft)
Project Co-Leads: Omar Baldonado (Facebook) and Scott Emery (Cumulus)

IC Representative: James Jau (QCT)
Project Co-Leads: Steve Mills (Facebook) and Caleb Lusk (Rittal)

IC Representative: TBD (Incubation)
Project Co-Leads: Nate Klein (Google) and Bryan Kelly (Microsoft)

IC Representative: Bob Ogrey (AMD)
Project Co-Leads: Siamak Tavallaei (Microsoft) and John Stuewe (Dell)

IC Representative: Doug Bone (Hvye)
Project Co-Leads: Jorge Campello (HGST) and Jason Adrian (Microsoft)

IC Representative: Jeff Caitlin (Edgecore)
Project Co-Leads: Craig White (Nokia) and Sumithra Bhojan (AT&T)

Hardware Management

High Performance Compute

Open System Firmware

Networking

Rack & Power

Security

Server

Storage

Telco

Contributions

5 Easy Steps

Step 1 – Sign Contribution License Agreement (OCP or OWF)

Step 2 – Present a Proposal or Idea to the Project Group

**Step 3 – Write a spec, submit design files, enroll your
product in logo program, perform a case study,
write a white paper, reference an architecture, etc.**

Step 4 – Get Approval from OCP Incubation Committee

**Step 5 – Adopt OCP Recognized Product & use the OCP
Marketplace as a channel**

**The OCP Foundation and OCP
Community is with you all the way!**

So many ways to contribute....



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Reference Architectures* - such as software validations, certifications



Tested Configurations of OCP Products (HW/SW)



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2018 Contribution Credit Structure

Type	Description	Credit
Specification or Design Package	1 Specification or 1 Design Package	1 Credit
OCP Inspired™ Product	5 OCP Inspired™ Product SKUs on the Marketplace. Each SKU must be readily available and must carry the OCP Inspired™ logo.	5 SKUs = 1 Credit
OCP Accepted™ Product	5 OCP Accepted ™ Product SKUs on the Marketplace. Each SKU must be readily available and must carry the OCP Accepted™ logo.	5 SKUs = 1 Credit
Tested Configuration	A documented and tested configuration using an OCP Inspired™ or OCP Accepted™ Product and configured with additional hardware and operating system software and application software (specific use) <ul style="list-style-type: none">- Testing plan/results, configuration details must be provided.- Contributor warrants tested configuration will work in defined use case and can provide support service-Contributor responsible for accuracy of info- OCP may promote the contribution of tested configurations via the OCP Marketplace.	10 tested configurations = 1 Credit

2018 Contribution Credit Structure Cont'd

Type	Description	Credit
Reference Architecture	A documented and tested solution comprising: <ul style="list-style-type: none">• Two or more unique tested configurations (see above)• Two or more unique OCP Accepted™ Product SKUs.• > 50% content use of Orderable SKUs. <p>- The contributor must provide product test documentation, certification info, and configuration details about the reference architecture and warrants that the reference architecture works as documented.</p> <p>- OCP shall be allowed to promote the contribution of reference architecture via the OCP Marketplace.</p>	Case Dependent (0.5-1 Credit per item)
White Papers & Case Studies	A white paper or case study explaining details of your use of OCP Accepted™ or OCP Inspired™ Products within your infrastructure. The white paper or case study must demonstrate 2 or more OCP tenets and be accepted by the Foundation and IC committee along with the appropriate agreements. OCP shall be allowed to promote this on the OCP website or promotional materials.	Case Dependent (0.25-1 Credit per item)
Educational Videos or Quotable References or OCP-centric Technology Seminars	For Partial Credit, the Foundation may approve the following items with proper authorization and technical validation. The below items must utilize of at least 2 OCP Tenets. <ul style="list-style-type: none">- Educational Videos for use of OCP Products or Reference Architectures- Testimonials and quotable customer references for relevant OCP Products, Test Configurations and Reference Architecture- Technology Seminars, when promoting the use of OCP Products, Test Configurations and Reference Architecture	Case Dependent (0.5-1 Credit per item)
Organized Plug-fests		
Engineering Workshops	- OCP shall be allowed to promote this on the OCP website or promotional materials.	

OCP Product Recognition Program

Products that comply 100% with an existing accepted specification and the design files are open sourced and available.



OCPTM
ACCEPTED

Products that comply 100% with an existing accepted specification and are available from OCP Silver, Gold or Platinum Member.



OCPTM
INSPIRED

Worldwide Delivery, Service, Support Network



OPENTM
Compute Project
SOLUTION PROVIDER

OCP-Accepted™ or OCP-Inspired™ Products demonstrate
Efficiency, Openness, Impact & Scale

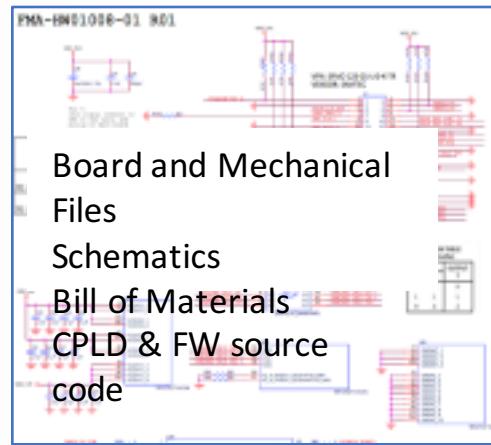


OCP Logo Usage

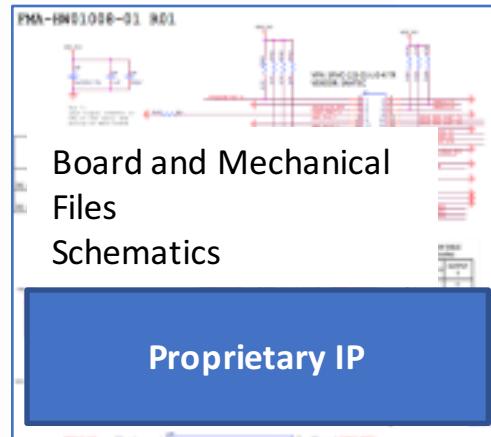
Specification



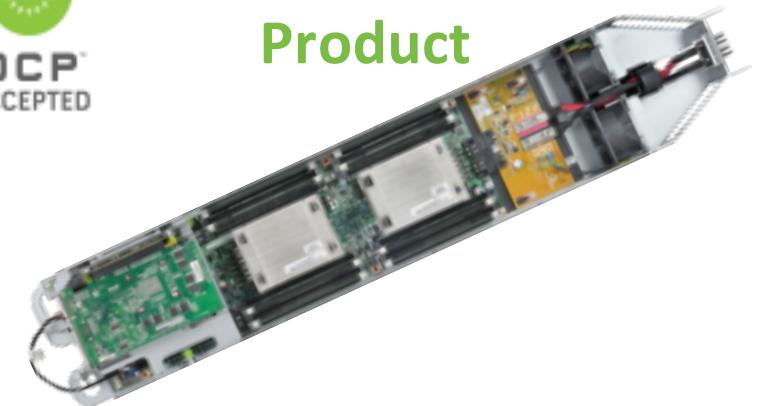
Design Package



Proprietary Design



OCP Accepted™ Product



OCP Inspired™ Product



* Specs, Design Package, and Products can come from same or different companies

OCP Marketplace

OCP Marketplace

Welcome to the OCP Marketplace, where you can research products, review specifications and collateral, as well as find out how to purchase OCP products, so you can realize the many benefits of our open community. Use this tool to determine the right mix of OCP technologies to design and purchase a system that meets your specific needs.



Search marketplace  

Type of search

- Orderable Products
- Specifications & Design Collateral

Status

- OCP Accepted (51)
- OCP Inspired (32)

Architecture Category

- Rack & Power (2)
- Network (34)
- Integrated Solution (3)

 > OCP Marketplace Home

Edgecore Networks AS7816-64X 100GbE Data Center Switch - ToR/Spine Switch 

Model #: AS7816-64X **Part #:** 7816-64X-O-AC-F **Spec #:** S0163 **Manufacturer:** Edgecore Networks **Tags:** N/A **Solution Provider:** Edgecore, ITOCHU Techno-Solutions Coporation, Hye Solutions

Description: 64 x QSFP28 ports, can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/100 GbE uplinks, or as a spine switch supporting 40/100 GbE spine interconnects.

Find out how to become an OCP Solution Provider and feature your products here

