

## Worldwide Open Compute Project (Compute and Storage) Infrastructure Market Revenue Forecast to Grow at a 16.6% CAGR through 2024, According to IDC

FRAMINGHAM, Mass., June 1, 2020 – A new forecast from International Data Corporation ([IDC](#)) shows worldwide revenue from the Open Compute Project (OCP) infrastructure market will reach \$33.8 billion in 2024. While year-over-year growth will slow slightly in 2020 due to capital preservation strategies during the Covid-19 situation, the market for OCP compute and storage infrastructure is forecast to see a compound annual growth rate (CAGR) of 16.6% over the 2020-2024 forecast period. The forecast assumes a rapid recovery for this market in 2021-22, fueled by a robust economic recovery worldwide. However, a prolonged crisis and economic uncertainty could delay the market's recovery well past 2021, although investments in and by cloud service providers may dominate infrastructure investments when they occur during this period.

The Open Compute Project (OCP) was established in 2011 as an open community focused on designing hardware technology to efficiently support the growing demands on compute infrastructure at midsize to large datacenter operators (hyperscalers). Open Compute standards are now supported by market leaders such as Facebook, Microsoft, LinkedIn, Alibaba, Baidu, Tencent, and Rackspace. The OCP encourages infrastructure suppliers, hyperscalers, cloud service providers, systems integrators, and components vendors to collaborate on new innovations, specifications, and initiatives across several key categories.

"By opening and sharing the innovations and designs within the community, IDC believes that OCP will be one of the most important indicators of datacenter infrastructure innovation and development, especially among hyperscalers and cloud service providers," said [Sebastian Lagana](#), research manager, Infrastructure Systems, Platforms and Technologies.

"IDC projects massive growth in the amount of data generated, transmitted, and stored worldwide. Much of this data will flow in and out of the cloud and get stored in hyperscale cloud data centers, thereby driving demand for infrastructure," said [Kuba Stolarski](#), research director, Infrastructure Systems, Platforms and Technologies at IDC.

#### OCP Technology by Segment

The compute segment will remain the primary driver of overall OCP infrastructure revenue for the coming five years, accounting for roughly 83% of the total market. Despite being a much larger portion of the market, compute will achieve a CAGR comparable to storage through 2024. The compute and storage segments are defined below:

- Compute: Spend on computing platforms (i.e., servers including accelerators and interconnects) is estimated to grow at a five-year CAGR of 16.2% and reach \$28.07 billion. This segment includes externally attached accelerator trays also known as JBOGs (GPUs) and JBOFs (FPGAs).
- Storage: Spend on storage (i.e., server-based platforms and externally attached platforms and systems) is estimated to grow at a five-year CAGR of 18.5% and reach \$5.73 billion. Externally attached platforms are also known as JBOFs (Flash) and JBODs (HDDs) and do not contain a controller. Externally attached systems are built using storage controllers.

OCP Technology Segment Data, 2019 and 2024 (Revenues are in US\$ billions)					
Market	2019 Revenue	2019 Market Share	2024 Revenue	2024 Market Share	2019-2024 CAGR
Compute	\$13.25	83.1%	\$28.07	83.0%	16.2%
Storage	\$2.45	16.9%	\$5.73	17.0%	18.5%
Total	\$15.70	100.0%	\$33.80	100.0%	16.6%

Source: IDC Worldwide Open Compute Project Compute and Storage Infrastructure Market Forecast, May 2020.

### Buyer Type Highlights

OCP Board Member purchases make up the bulk of the OCP infrastructure market and are poised to grow at a 14.8% CAGR through 2024, when they will account for just under 75% of the total market. Conversely, non-member spending is projected to increase at a five-year CAGR of 23.2% and will expand its share of the OCP infrastructure market by just over 600 basis points during that period.

In terms of end user type, hyperscalers account for the largest portion of the market at just over 78% in 2019 and are projected to expand spending at a 14.2% CAGR through 2024, although this will result in erosion of total share. Conversely non-hyperscaler purchases will expand 23.8% over the same period, increasing this group's market share by approximately 650 basis points from 2019 to 2024.

This IDC report, [Worldwide Open Compute Project \(Compute and Storage\) Infrastructure Forecast, 2020–2024](#) (Doc #US46344320), provides an overview of the compute and storage infrastructure market based on specifications that are part of the Open Compute Project. This includes OCP Accepted and OCP Inspired hardware. This forecast is the first iteration for this market and forms the basis of subsequent research coverage of emerging technologies, architectural approaches, and use cases. It is based on existing IDC forecasts on servers (compute), external storage systems, and infrastructure software and therefore, has implications on various segments of the datacenter infrastructure market.

#### About IDC

International Data Corporation (IDC) is the premier global provider of market intelligence, advisory services, and events for the information technology, telecommunications, and consumer technology markets. With more than 1,100 analysts worldwide, IDC offers global, regional, and local expertise on technology and industry opportunities and trends in over 110 countries. IDC's analysis and insight helps IT professionals, business executives, and the investment community to make fact-based technology decisions

and to achieve their key business objectives. Founded in 1964, IDC is a wholly-owned subsidiary of International Data Group (IDG), the world's leading tech media, data and marketing services company. To learn more about IDC, please visit [www.idc.com](http://www.idc.com). Follow IDC on Twitter at [@IDC](https://twitter.com/IDC) and [LinkedIn](https://www.linkedin.com/company/idc). Subscribe to the IDC Blog for industry news and insights: [http://bit.ly/IDCBlog\\_Subscribe](http://bit.ly/IDCBlog_Subscribe).

All product and company names may be trademarks or registered trademarks of their respective holders.

IDC is a subsidiary of IDG, the world's leading technology media, research, and events company. Additional information can be found at [www.idc.com](http://www.idc.com). All product and company names may be trademarks or registered trademarks of their respective holders.

For more information contact:

Ashish Nadkarni  
[anadkarni@idc.com](mailto:anadkarni@idc.com)  
508-988-6872  
Michael Shirer  
[press@idc.com](mailto:press@idc.com)  
508-935-4200  
Kuba Stolarski  
[kstolarski@idc.com](mailto:kstolarski@idc.com)  
508-935-4172  
Sebastian Lagana  
[slagana@idc.com](mailto:slagana@idc.com)  
508-935-4585