



OPEN

Compute Project

Rack and Power Project Charter

Revision 0.2

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2. Overview

The Rack and Power Project creates designs and specifications for infrastructure components that enable hyperscale and enterprise solutions through collaboration with the wider Open Compute community. This project provides the foundation upon which the other Open Compute projects will innovate. Successful projects delivered by this project will:

- Reduce the Total Cost of Ownership of the entire IT stack rather than acquisition costs
- Maximize component utility by disaggregating components with differing life-cycles
- Enable innovative IT solutions by limiting design constraints inherited from the infrastructure
- Provide flexible solutions capable of scaling across differing industry needs
- Simplify service of high value components
- Reduce the risk and time spent on deploying and decommissioning IT gear

3. In-Scope Activities

The Rack and Power Project will focus on areas of the IT stack related to the following:

- Design of rack systems including 19" EIA-310 and other hyperscale optimized architectures
- Methods of deploying loaded rack solutions within data centers
- Scalable power distribution within the rack including busbars and cabled solutions
- Data and power interconnects between the IT gear and the rack-level infrastructure
- Rack-level power solutions with a range of redundancy and capacity options to meet differing users' needs
- Sub-rack level chassis that support for IT trays with cooling, power, or management functions

4. Out of scope Activities

There are also areas will not be included in this projects scope such as:

- Data-center-level power distribution or back-up solutions [covered by the Data Center Project]
- Connector and cables primarily used for network gear [covered by the Network Project]
- Hardware management protocols for components within the rack [covered by the Hardware Management Project]
- IT trays either within a sub-chassis or not [Server Project]