



[SMART] OCP SOLUTIONS



THE DATA CENTER REVOLUTION HAS BEGUN

- 38% Gain on Efficiency
- 24% Reduction in Power & Cooling
- 1 Tech to 20,000 systems (current standard 1 tech: 1,000 systems)
- Power Usage Efficiency (PUE) of 1.07 (current standard 1.50)

OCP and AMAX

The Open Compute Project (OCP) was developed by Facebook to build the most efficient datacenter infrastructure with the greatest operational cost savings. As an official OCP Solutions Provider, AMAX can manufacture, deploy and support global deployments. AMAX OCP Solutions are completely turnkey and can be delivered fully-tested and validated with OpenStack to take full advantage of virtualization and cloud computing capabilities while offering maximum flexibility at the application level. AMAX OCP Solutions allow clients to run various applications such as web, cache, data analytics and storage within the same rack, and its inherent streamlined design requires only a simple changing of component-level configurations to repurpose servers as application needs change.

The data center revolution has begun, and hardware alone is not a solution; today's IT requirements demand a true total solution that allows businesses to efficiently and effectively support their services with the ultimate in flexibility and functionality, letting them do what they do best without leaving money on the table. That's Smart business. That's Smart solutions. AMAX — Your **SMART** OCP Solutions Provider.

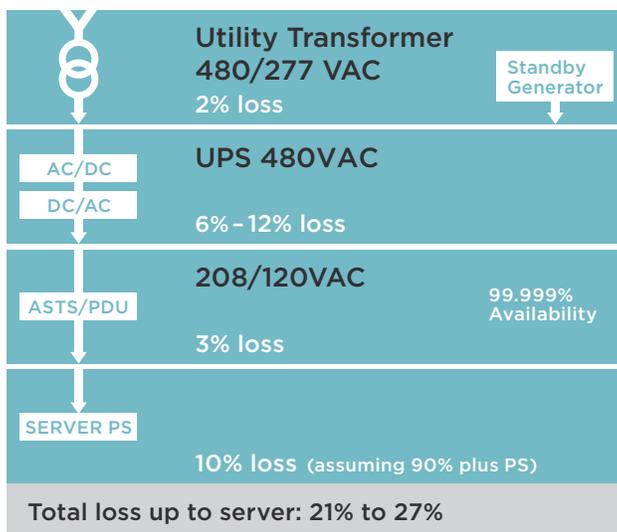


KEY ADVANTAGES IN OCP DESIGN

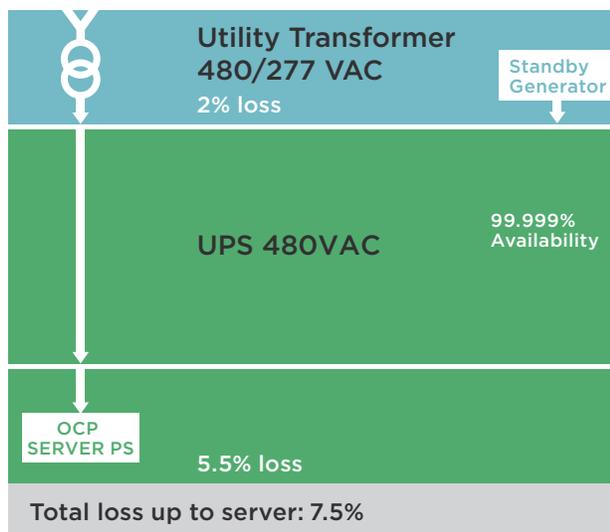
Minimal Power Conversion

Input power of traditional racks enters the facility at 480V and needs to be converted several times in order to get to the 12V required for the onboard devices. OCP racks require fewer conversions, resulting in maximum power efficiency and savings.

Typical (Legacy) Power



OCP Power



Efficient Cooling

Fans are much larger and thicker compared to traditional servers so they spin at a much lower speed to minimize noise, harmful harmonics and RV that could potentially lead to failure. They also draw significantly less power compared to standard servers.

Serviceability and Access

OCP single sleds can be removed at a fraction of the time of traditional 1U servers. There are no screws, fasteners or tools required.

Fewer Points of Failure

Backplanes, midplanes, PDBs, excessive bridges and connections are potential points of failure. With OCP, these are mostly reduced or eliminated to minimize failure points and increase quality/reliability.

Longterm ROI

OCP's sled design has no chassis and the power supply is built into the rack. Rather than scrapping entire servers during upgrade cycles, only individual components such as motherboards, CPU, or RAM need to be exchanged. Less waste = more ROI.

Less Maintenance

The simple, vanity-free design with less points of failure means less maintenance requirements. While the standard datacenter requires 1 tech to service approximately 1,000 systems, data centers using OCP architecture report maintenance ratios of 1 tech to 20,000 systems.

Compatibility

AMAX OCP solutions are validated with Hadoop and Open Stack distributions and can be delivered preinstalled for a total solution that can immediately start generating returns upon installation.

AMAX'S ADVANTAGE AS AN OCP SOLUTIONS PROVIDER

Can lowering your IT spending and increasing your revenue for services be this simple? Yes, when you are deploying AMAX solutions designed with the SMART Principle:

S STREAMLINED
.
M MODULAR
.
A APPLICATION-READY
.
R REPURPOSABLE
.
T TOTAL SOLUTION



AMAX OCP Solutions are simple in design, but powerful in performance and production. The streamlined design means you get only what you need with modular architecture simplifying scaling by adding more racks as demand grows. All racks can be shipped pre-loaded with OpenStack allowing applications to be easily loaded and ready to run within days. As IT needs evolve, servers are easily repurposed as application demands change, eliminating the need to buy specialized equipment for specific applications.

Engineering Expertise

AMAX engineers work directly with clients to evaluate specific project parameters including data center infrastructure, scale projection, workload, applications, onsite installation and support requirements to develop an optimal configuration design and project proposal. Because every data center is unique, AMAX's approach is to uniquely consider each OCP deployment for maximum efficiency and optimization.

Total Solution Provider

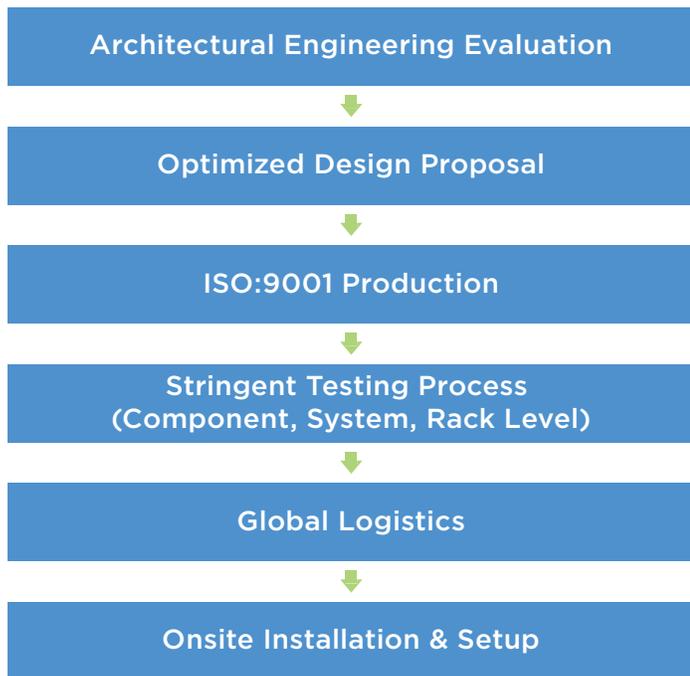
To get your money's worth, you need more than just a company that racks and stacks hardware. From initial engineering evaluation and design for optimized design architecture, to building complete racks fully tested at the component, system and cluster level in an ISO:9001 facility, to installing and validating OS solutions such as Hadoop distributions and OpenStack, AMAX delivers fully integrated solutions that are ready to start generating returns immediately.

Compliance

With decades of experience working closely with National Recognized Test Labs (NRTL), AMAX will handle the entire certification process for meeting stringent compliance and regulatory standards (UL, FCC, CE, TUV, RoHS) on your behalf. This includes conformity assessment, product listing, follow-up services and documentation. Our expertise and experience will ensure your products meet industry standards anywhere in the world, expediting time-to-market by eliminating non-compliance issues.



Solution Design Workflow



Design Flexibility

AMAX can provide datacenter solutions based on OCP architecture, standard architecture or a hybrid design. During the initial engineering evaluation, AMAX will work closely with customers to determine the architecture that provides optimal efficiency and flexibility.

Global Presence

While AMAX's primary manufacturing facility is located in Silicon Valley, CA for a Made in USA product, it has the ability to deliver and provide onsite support globally. AMAX also has a parallel manufacturing site in Suzhou, China, providing faster deployment within mainland China.

Time to Market

AMAX prides itself in on-time delivery and all sales cycles begin with a project plan detailing deliverables and deadlines, actively updated daily with full transparency.

The Universal Solution

From design to delivery, AMAX does it all. Whether down the street or globally, AMAX will get your data center solutions there. Call now to start revolutionizing your datacenter today!

AMAX is a leading manufacturer of advanced turnkey clusters developed for Hadoop, OpenStack and High Performance Computing. As an Official Solution Provider for Facebook's Open Compute, AMAX can architect your solution on standard x86 or OCP platforms with a full menu of services including engineering design, ISO:9001 manufacturing, stringent component- system-rack level testing & validation, and global logistics and support.



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