

# CB<sup>3</sup> DATA CENTER SERVER SERIES

## CLOUD BASIC BUILDING BLOCKS FOR DATA CENTERS

### Scale quickly, easily, and cost-effectively.

The CB3 Data Center Server Series utilizes a modular building block design to easily implement and scale today's largest cloud and data center infrastructures with maximum cost-efficiency and flexibility. CB3 servers are the ideal infrastructure for cloud providers and enterprise IT to provide service on demand for a wide range of applications and workloads while minimizing additional operations costs. AMAX can provide CB3 servers as building blocks, or as vertically-integrated rack solutions for applications such as Hadoop or OpenStack, delivered fully-tested, pre-loaded with software, and ready to start generating value upon power up.

### BUILT FOR SERVICE PROVIDERS

AMAX CB3 building blocks are designed to help the service provider.

**Reduce Costs:** A more efficient infrastructure reduces energy and space requirements and increases software automation.

**Achieve Operational Efficiency & Scale:** Business-aligned technologies that are highly scalable and automated better support your "X-as-a-Service" business model.

**Drive Growth:** Easy scalability allows you to increase your user base and drive market share growth.

**Consistent Customer Service:** AMAX quality and support lets you keep up with tough customer service-level agreement expectations.

**Speed Time to Revenue for New Services:** Generate revenue faster with new differentiated services that keep you ahead of the competition.

**Flex on Demand:** CB3's modular building block design is streamlined to give you the flexibility to easily add infrastructure resources based on end-user demand.

### MEET YOUR BUSINESS OBJECTIVES







The CB3 series of rack-scale servers harness all the performance of the latest Intel® Xeon® processors and are delivered tailored to fit your exact requirements. The series is designed specifically for data center and cloud operations and reduces capital expense (CAPEX) by skipping the unnecessary extras, while also reducing operational expenses (OPEX) by making integration into your existing environment easier, and management more flexible. These servers are:

**Built for Extreme Scale:** CB3 servers are designed modularly for extreme scale deployments, while accommodating the variability associated with service provider demand. Delivery and deployment is optimized with AMAX's global logistics support and AMAX's proprietary rack-level testing and integration processes for industry leading quality and uptime which translate into operational and maintenance savings.

**Built on Open Design Principles:** Support for open management tools, leveraging common industry interfaces in both hardware and firmware domains, is standard in CB3 servers. CB3 servers fit easily into a multi-vendor environment where the same service provider management software may be running on platforms sourced from different vendors.

**Cost focused:** Featuring a minimalist approach to design, CB3 solutions are based on low-cost, bare-metal, rack-mount servers which are cost-optimized for large-scale deployments, delivering savings over traditional servers while AMAX's manufacturing and testing processes guarantee the highest quality build.

## CB<sup>3</sup> SERVER PRODUCTS

						
<b>Product Name</b>	CB3-1100	CB3-2100	CB3-2200	CB3-2800	Centurion 12303 Centurion 12203	Centurion 22303 Centurion 22203
<b>Form Factor</b>	1U	1U	2U	2U 4-node	1U Decathlete	2U Decathlete
<b>Chipset</b>	Intel® C610 series					
<b>Processor</b>	2x Intel Xeon E5-2600 v3/v4			2x Intel Xeon E5-2600 v3/v4 (per node)	2x Intel Xeon E5-2600 v3/v4	
<b>Memory</b>	8x DDR4 DIMM slots	16x DDR4 DIMM slots		16x DDR4 DIMM slots (per node)	24x DDR4 DIMM slots	
<b>Storage</b>	2x 3.5" <u>OR</u> 2x 2.5" drive bays	4x 3.5" <u>OR</u> 8x 2.5" drive bays	12x 3.5" drive bays, 2x 2.5" rear drive bays	12x 3.5" drive bays (3 per node) <u>OR</u> 24x 2.5" drive bays (6 per node)	4x 3.5" <u>OR</u> 10x 2.5"  + optional NVMe PCIe SSD support	12x 3.5" <u>OR</u> 24x 2.5"  + optional 2x rear 2.5" hot-plug SATA/SAS, 2x optional rear 2.5" hot-plug PCIe SSD
<b>Networking</b>	2x 1 GbE, 2x 10 GbE SFP + via OCP Mezz 1x IPMI port	2x 1 GbE, 2x 10 GbE SFP + via OCP Mezz 1x IPMI port	2x 1 GbE, 2x 10 GbE SFP + via OCP Mezz 1x IPMI port	2x 1GbE, 1x IPMI Port per node  + optional 2x 10 GbE SFP + via OCP Mezz	<u>Option 1:</u> Intel® dual-port 1 GbE, dedicated 1 GbE management port, support for OCP Mezz  <u>Option 2:</u> Intel® X540 dual-port 10 GbE BASE-T, dedicated 1 GbE management port, support for OCP Mezz	
<b>Power Supply</b>	Single 500W	Single 650W	Redundant 800W	Redundant 1600W	Redundant 750W 80+ Platinum rating	
<b>Reference #</b>	Q169129	Q168641	Q168640	Q171852 (3.5") Q171854 (2.5")	Q172290	Q172289

## CB<sup>3</sup> MANAGEMENT

- Management built on open standards, delivering essential functionality that seamlessly integrates into existing standard environments
- IPMI, full SNMP support, remote control (BMC web interface), linux based toolkits
- BIOS settings, ability to replicate across nodes, flash update BIOS and BMC firmware remotely, ability to replicate across nodes
- Reference scripts for opensourcemanagement tools such as Nagios
- Support for future standards

## ABOUT AMAX

AMAX is a trusted leader in Data Center, Cloud, HPC and OEM Solutions in North America and has been recognized for several industry awards including most recently, the 2014 Best of VMWorld and Intel Server Innovation Award for its CloudMax™ Converged Cloud Infrastructure solution. Founded in 1979 and headquartered in Silicon Valley with additional locations in China and Ireland to offer global manufacturing and logistics, AMAX is a full service open-architecture manufacturer specializing in innovative server-to-rack level solutions developed for Datacenter, HPC, Cloud and Big Data applications. AMAX's extensive menu of services includes best-in-class engineering & architectural design, ISO-certified manufacturing, customizable test automation, supply chain management, as well as global logistics, certification & technical support. As an Official OCP Solutions Provider, AMAX can build its solutions using both standard and OCP architecture. To learn more, please visit [www.amax.com](http://www.amax.com).

