

# Core and Edge Computing Platforms

AN IDC CONTINUOUS INTELLIGENCE SERVICE

IDC's *Core and Edge Computing Platforms* service provides continuous market data and analysis of the worldwide hardware computing platforms markets. These include server and non-server form factors deployed in the datacenter and off-datacenter locations (including edge) and in a public, private and non-cloud infrastructure. The infrastructure industry is in a state of transition, driven by disruptive trends such as cloud, hyperscale, artificial intelligence, silicon heterogeneity, blockchain, social media, and mobility. This service provides research and analysis on how these trends are reshaping the development and evolution of new and existing systems, platforms, and technologies markets. This service also analyzes vendor trends and strategies.

## Markets and Subjects Analyzed

- Worldwide server market share, forecasts, and installed base
- Converged and integrated systems
- Cloud, hyperscale, and service provider infrastructures
- Composable and disaggregated systems
- Software-defined infrastructure
- Virtualization and cloud system software and the impact on servers
- High-availability (HA) and fault-tolerant systems
- Big Data, analytics, and database infrastructure
- Scale-up computing platforms
- Modular systems
- Edge computing infrastructure (gateways and systems)
- Next-generation computing platforms
- Vendor performance, strategies, and portfolios
- The role of operating systems in cloud computing
- The impact of thin operating systems on the market
- The relationship between OS and container technology
- The impact of virtualization on server operating platforms
- Accelerated computing, including control plane offload mechanisms

## Core Research

- Worldwide Server Market Shares
- Worldwide Server Forecast
- Highly Available Server Market Forecast
- Artificial Intelligence Computing Forecast
- Worldwide Server Installed Base Forecast
- Computing Platforms Market Trends
- Accelerated Computing Forecast
- Edge Computing Forecast

In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit: [Core and Edge Computing Platforms](#).

## Key Questions Answered

1. How will the emergence of converged systems, which integrate servers, storage, and the network, impact the market?
2. How will public and private clouds, service providers, and hyperscalers shape the server market in the future?
3. What is the next set of trends in server virtualization — virtual sprawl, management, or mobility?
4. How will emerging server technologies, including disaggregated and composable servers, impact the industry?
5. How will advances in the multicore processors push the x86 server upmarket to address high-end workloads?
6. How is the ODM portion of the server market evolving, and how is that changing the dynamics for other market segments?
7. How will artificial intelligence and accelerated computing change the server industry?
8. How will edge computing infrastructure evolve in the connected world?
9. What will be the impact of IT/OT convergence on core and edge infrastructure?

## Companies Analyzed

IDC's *Core and Edge Computing Platforms* reviews the strategies, market positioning, and future direction of providers in this market, including:

ADLINK, Advantech, AIC, Altera, Amazon, AMD, Ampere, Apple, ARM, ASRock Rack, Broadcom, Canonical, Cavium, Celestica, Cisco, Citrix, Compal, Cray, Dell, Docker, Ericsson, Facebook, Foxconn, Fujitsu, GIGABYTE, Google, H3C, Hewlett Packard Enterprise, Hitachi, Huawei, IBM, Inspur, Intel, Inventec, Lenovo, LSI, Marvell, Micro Focus, Micron, Microsemi, Microsoft, MiTAC, NEC, NetApp, Nokia, Nutanix, NVIDIA, Oracle, Pegatron, Qualcomm, Quanta, Rackspace, Red Hat, Samsung, SanDisk, SAP, Seagate, SK hynix, Stratus, Sugon (Dawning), Supermicro, SUSE, Symantec, SYNnex-Hyve, Texas Instruments, Unisys, VMware, Western Digital, Wistron-Wiwynn, Xilinx, ZTE, and ZT Systems.