

Emerging Systems Infrastructure Technology

Emerging Systems Infrastructure Technology provides an in-depth analysis of emerging technologies at the semiconductor, subsystem, and platform levels within enterprise infrastructure. It seeks to examine emerging and adjacent technologies that have the potential to disrupt and/or transform the course of the IT platforms, systems, and services landscape. IDC analysts will take a well thought out point of view on the technology, product road map inflection point, and why it is evolutionary or revolutionary, and the extent to which it will drive a sustained revenue opportunity, change, or disruption in the IT industry supply and demand chain.

MARKETS AND SUBJECTS ANALYZED

- Power and Analog Semiconductors
 - Optical Interconnects and I/O (e.g., NVLink, PCIe, Ethernet)
 - Cooling and Power Systems (e.g., Liquid and Air-Cooling Trends)
 - Memory and Storage Devices and Connectivity (e.g., CXL)
 - Open Compute Project (OCP)
 - Rack Optimization Technologies
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CORE RESEARCH

- Market Taxonomy and Ontology
- IDC Market Perspectives
- Market Presentations
- Technology and Product Road Maps
- Market Forecasts

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: [Emerging Systems Infrastructure Technology](#).

KEY QUESTIONS ANSWERED

1. What are the key technologies that are influencing or disrupting mature infrastructure markets today?
 2. How are vendors planning to incorporate these technologies into their systems and platforms?
 3. What are the implications for IT buyers and how should they approach investments?
 4. What are IDC projections for the market?
 5. What are the key inflection points for each major technology within AI infrastructure?
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COMPANIES ANALYZED

This service reviews the strategies, market positioning, and future direction of several providers in the emerging systems infrastructure technology market, including:

Advanced Energy, AMD, Ampere, Analog Devices, Arista Networks, ARM, ASE Technology, ASPEED, Astera Labs, ASUS, AWS, Broadcom, Cisco, Coherent, Corning, DB HiTek, Dell, Foxconn, GlobalFoundries, Google, HPE, IBM, Infineon, Intel, Inventec, IPG Photonics, Lenovo, Marvell, Meta, Microchip Technology, Micron,

Microsoft, Monolithic Power, NetApp, NVIDIA, NXP, Oracle, ON Semiconductor, Pegatron, Powerchip, Powertech, Quanta, Renesas, Samsung, SK hynix, STMicroelectronics, Supermicro, Texas Instruments, Tower Semiconductor, TSMC, United Microelectronics Corp., Vanguard, and Wolfspeed