

2025 Next Generation Technologies Research Review

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Abstracts

Advanced technologies such as artificial intelligence (AI), machine learning (ML), advanced networking, and next-generation computing architectures are reshaping manufacturing by enabling intelligent, data-driven, and automated operations. Technologies such as silicon photonics-based interconnects are enhancing data transmission speed, reducing latency, and minimizing power consumption, which is a key aspect for AI-based manufacturing systems. On the other hand, AI-based network orchestration is enhancing real-time decision-making, predictive maintenance, and network self-healing capabilities. GenAI at the edge is further enhancing the capabilities for real-time data processing at the edge, especially for use cases such as real-time quality inspection, autonomous systems, and edge analytics without the need for cloud infrastructure.

Container-as-a-Service (CaaS) is enabling the deployment of applications in hybrid and multi-cloud environments, simplifying infrastructure complexity. The use of AI for network optimization, including the latest developments in technologies such as Wi-Fi 7, is helping provide reliable high-density connectivity for machine-to-machine communication. Technologies such as Antenna Information Sensor Units help improve the real-time monitoring and optimization of network infrastructure. Additionally, technologies related to satellite internet improvement and satellite system miniaturization are helping to improve global connectivity, especially for distributed manufacturing environments. In summary, these technologies are helping to improve the move towards connected, intelligent, and efficient manufacturing systems.

Research Reviews from BCC Research provide market professionals with concise market coverage within a specific research category. This 2025 Research Review of manufacturing provides a sampling of the type of quantitative market information, analysis, and guidance that BCC Research has been developing since its inception in 1971 to help its customers make informed business decisions. This Research Review

includes highlights and excerpts from the following reports published by BCC Research in 2025:

IFT103C Data Center Networking Technologies: Global Markets

IFT149D Quantum Computing: Technologies and Global Markets to 2030

IFT310A Global Edge AI Market

IFT178B Cloud Computing Technologies: A Global Outlook

IFT318A Global Trading Card Games Market

IFT316A Wi-Fi 7: Global Markets to 2030

IFT073G Antenna: Including Patch, Embedded, Fractal, Smart, and Reflectors

IFT309A Global Satellite Internet Market

After you survey the excerpts in this Research Review, we encourage you to follow up on these topics by checking out the full market research reports associated with each topic. BCC Research looks forward to serving your market intelligence needs in the future.

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