Desktop Virtualization In Manufacturing - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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Report description:

The Desktop Virtualization In Manufacturing Market size is estimated at USD 8.95 billion in 2025, and is expected to reach USD 16.42 billion by 2030, at a CAGR of 12.9% during the forecast period (2025-2030).

Desktop virtualization in manufacturing is a growing market that provides more efficient and cost-effective solutions for enterprises with large data centers, which often incur high costs due to physical infrastructure requirements (such as space, power consumption, and cooling) and hardware acquisition (purchase of new servers).

Key Highlights
- The increased popularity of cloud computing is driving the market. Cloud computing drives digital transformation in enterprises, and manufacturers are shifting their information technology (IT) budgets to the cloud. It lowers power and resource management costs in the industrial sector, driving demand for desktop virtualization.
- Cost savings are driving the market because, from an information technology (IT) standpoint, virtual desktops assist in minimizing the time it takes to provide new desktops, as well as desktop and admin administration and support expenses, by not investing in different plants. According to experts, the total cost of ownership (TCO) of a standard PC is between 50 and 70 percent related to managing and maintaining PC hardware and software.
- However, infrastructure restrictions limit the adoption since network infrastructure must manage the increased bandwidth that desktop virtualization will create. Otherwise, it will need to be updated. The Wide Area Network (WAN) lines must be able to handle remote DV consumers, preventing a significant market problem.
- During the COVID-19 pandemic, the global desktop virtualization market grew steadily, owing to dramatically increased digital penetration during COVID-19-induced lockdowns and stringent social distancing policies, which fueled demand for remote operational tools such as desktop virtualization tools. According to Anunta Tech's recent report, the COVID-19 pandemic affected

the desktop virtualization industry, increasing demand for virtual desktop infrastructure (VDI) by more than 70%.
- Furthermore, the growing number of COVID-19 instances prompted many firms to use remote working technologies. According to a TechTarget report, more than 67% of firms who implemented work-from-home policies following the emergence of COVID-19 expected to maintain remote working alternatives accessible for their employees even after the pandemic. During this period, such factors fueled the expansion of the worldwide desktop virtualization solutions market.

Desktop Virtualization in Manufacturing Market Trends

Cloud Deployment Mode to Gain Significant Share

- The importance of the cloud in reducing automation/intelligent manufacturing expenses and speeding up adoption in the manufacturing industry has been a draw for Virtual desktop infrastructure (VDI). Manufacturers can maintain design information in the data center, and remote users can view this data in real-time on a laptop or mobile device.
- The use of remote desktop virtualization' in cloud solutions was growing as a result of their flash storage and accelerated reading and writing features, which improve the user experience in the manufacturing sector and lower the cost of managing other manufacturing plants when compared to traditional desktop administration.
- Micron Technology manages its semiconductor memory production processes using virtualization in information technology (IT). In addition, they develop, produce, and maintain fundamental pieces of the virtualization/hyper-converged infrastructure (HCI) ecosystem in their manufacturing plant, which efficiently pushes the market.

North America to Witness Significant Growth

- North America controls most of the market since the industrial sector dominates the United States economy, which accounts for 82% of the region's economic output, and a substantial number of cloud service providers, resulting in high demand for desktop virtualization.
- The region's adoption of 3D printing for manufacturing has been significant, with industry and academic institutions deploying 3D printing constantly. NVIDIA virtualization platform in the United States extends the potential of NVIDIA GPUs, delivering a native desktop experience in 3D applications.
- The United States is the world's largest drug market, accounting for over half of all R&D spending in the pharmaceutical and biotechnology industry. With numerous control systems, each system needs its network topology, server infrastructure, and workstations on the plant floor, where desktop virtualization is becoming more popular.
- The rapid trend toward automation and investments in new technologies through implementing eco-friendly and energy-saving practices are driving value creation in the industrial sector, which will enhance demand in the future.

Desktop Virtualization in Manufacturing Industry Overview

The desktop virtualization market in manufacturing is fragmented as the players are innovating and investing in new technologies in R&D to improve the manufacturing sector's productivity, which gives a high rivalry among the players. Key players are IBM, Microsoft Corporation, Huawei Technologies Co. Ltd, etc. Recent developments in the market are -

In February 2022, IBM purchased Neudesic, a Microsoft Azure consultancy, to expand its provision of hybrid multi-cloud services and have a say in its hybrid cloud and artificial intelligence (AI) strategies.

In May 2022, Citrix announced that it collaborated with Microsoft on an upcoming product combining Windows 365, the world's first cloud PC, with its market-leading high-definition user experience (HDX) technology, robust IT policy control, and ecosystem flexibility. This gave IT administrators easier access to Citrix user licensing and offered employees a seamless transition to Citrix clients through Microsoft Endpoint Manager and Windows 365.

In May 2022, Citrix DaaS for IBM Cloud was available on IBM Cloud Virtual Private Cloud (VPCs) powered by Intel Xeon servers. With autoscale, this feature opened up the potential for part-time workloads in the cloud, delivering quick machine provisioning in minutes and dynamically deploying apps and desktop computers.

Furthermore, existing Citrix clients who run virtual desktop infrastructure (VDI) on-premises can migrate or burst to VPC and start providing Desktop-as-a-Service (DaaS). Administrators can use a machine catalog to select any Virtual Private Cloud (VPC) instance profile to deliver persistent and non-persistent desktop and application experiences.

In November 2022, A cloud-ready, dual-screen, Wi-Fi-ready thin client for Windows and Linux called RX300 was launched by NComputing Co. LTD. and is based on the most recent Raspberry Pi 3 (development board in PI series). The award-winning vSpace Pro 10 desktop virtualization software from NComputing is the platform for which RX300 is intended. Along with cloud-ready features, including support for NComputing's vCAST streaming technology, it offers a high-performance PC-like experience.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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