Network Emulator Market by Offering (Hardware and Software), Application (SD-WAN, Cloud, and IoT), Vertical (Telecommunication, Government and Defense, BFSI), and Region (North America, Europe, APAC, MEA, Latin America) - Global Forecast to 2028

Market Report | 2023-08-29 | 177 pages | MarketsandMarkets

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Report description:

The Network emulator market is estimated at USD 218 million in 2023 to USD 318 million by 2028, at a CAGR of 7.9% from 2023 to 2028. The rapid expansion of IoT devices is fueling the network emulator market. These devices rely on seamless network connections for optimal performance and require realistic testing. Network emulators simulate various network conditions, enabling comprehensive IoT testing. As IoT applications diversify, network interactions become complex, necessitating emulation to analyze real-world behaviors. Emulators assess IoT devices under different network scenarios, ensuring reliability and interoperability. As IoT adoption grows in sectors like healthcare and manufacturing, the demand for accurate testing via network emulators drives market expansion.

"SD-WAN application to contribute the largest market share in the network emulator market during the forecast period."

The network emulators adeptly replicate authentic network scenarios within controlled laboratory settings, harnessing advanced WAN emulation capabilities. Network emulators simplify the intricate task of configuring and optimizing SD-WAN strategies by skillfully mirroring actual WAN connections. They enable tailored optimization approaches based on unique network dynamics and application requirements. Furthermore, they create a controlled environment for simulating diverse WAN conditions, allowing comprehensive performance validation before real-world implementation. In essence, network emulators provide a potent toolkit for navigating the complexities of SD-WAN testing, ensuring the refinement of configurations and strategies that seamlessly align with the demands of real-world operational scenarios.

"The BFSI vertical is expected to register the fastest growth rate during the forecast period."

The BFSI vertical provides extensive growth opportunities for the network emulator as the BFSI vertical should have complete

control of devices and applications that are deployed on their networks. The BFSI sector uses network emulator products to simulate various network conditions to conduct realistic pre-deployment testing of new applications to ensure proper systems work when rolled out in the production network. Network emulators empower financial institutions to design and deploy network infrastructures that can automate business processes and offer modern applications.
"Asia Pacific to register the highest growth rate during the forecast period."
The Asia Pacific arena, home to nations like China, Japan, ANZ, and Singapore, is witnessing heightened security expenditure owing to an escalating threat panorama. Fueled by effective governmental regulations and technological headway, this dynamic economy hub offers fertile ground for network emulator expansion. Poised as the fastest-growing domain, the Asia Pacific network emulator sector thrives on cutting-edge technology adoption, GDP upswings, and robust economic advancement. Notable countries in the market landscape encompass China, Japan, South Korea, Indonesia, Thailand, Malaysia, and Singapore. As industrialization gains momentum, intensifying competition drives organizations to elevate customer service standards, further augmenting regional growth prospects. The burgeoning appetite for cloud-driven and cloud-supported network emulators fuels increased investments and technological strides spanning diverse industry verticals across Asia.

Breakdown of primaries

The study contains insights from various industry experts, from solution vendors to Tier 1 companies. The break-up of the primaries is as follows:

- By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%
- By Designation: C-level -35%, D-level - 25%, and Others - 40%
- By Region: North America - 45%, Europe - 20%, Asia Pacific - 30%, ROW- 5%.

The major players in the Network emulator market are Spirent Communications (UK), Keysight Technologies (US), Viavi Solutions (US), Calnex Solutions (UK), Rohde & Schwarz (Germany), Polaris Networks (US), Packetstorm (US), Solarwinds (US), Interworking Labs (US), Apposite Technologies (US), W2BI (US), GL Communications (US), Valid8 (US), Aldec (US), Marben Products (France), Aukua (US), Simnovus (US), Eve-NG Pro (UK), Giganet Systems (US), Qosmotec Software Solutions (Germany), Tetcos (India), Modulo Communications Systems (Israel), Nihon Communications Systems (India), and NextGig Systems (US). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, product enhancements, and acquisitions to expand their footprint in the Network emulator market.

Research Coverage
The market study covers the Network emulator market size across different segments. It aims at estimating the market size and the growth potential across different segments, including offerings (hardware and software), application, test type, vertical, and region. The study includes an in-depth competitive analysis of the leading market players, their company profiles, key observations related to product and business offerings, recent developments, and market strategies.
Key Benefits of Buying the Report
The report will help the market leaders/new entrants with information on the closest approximations of the global Network emulator market's revenue numbers and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. Moreover, the report will provide insights for stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.
The report provides insights on the following pointers:

- Analysis of key drivers (Rise of attacks and security breaches on networks, and need for reduced downtime in networking), restraints (Longer timelines and extended R&D requirements for new networking technologies, and price sensitivity of network testing and emulators), opportunities (Increasing demand for software-defined networking and virtualization, Multi-protocol support and advanced functions provided by the same hardware emulator, and Investments in R&D and positive outcomes from

the testing phase of 5G networks), and challenges (Lack of skilled workforce to comprehend and report issues in networking, and Fast changing network requirements to act as a concern for emulators) influencing the growth of the Network emulator market. Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Network emulator market. Market Development: Comprehensive information about lucrative markets - the report analyses the Network emulator market across various regions. Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Network emulator market. Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Spirent Communications (UK), Keysight Technologies (US), Viavi Solutions (US), Calnex Solutions (UK), Rohde & Schwarz (Germany), Polaris Networks (US), Packetstorm (US), Solarwinds (US), Interworking Labs (US), Apposite Technologies (US), W2BI (US), GL Communications (US), Valid8 (US), Aldec (US), Marben Products (France), Aukua (US), Simnovus (US), Eve-NG Pro (UK), Giganet Systems (US), Qosmotec Software Solutions (Germany), Tetcos (India), Modulo Communications Systems (Israel), Nihon Communications Systems (India), and NextGig Systems (US).

Table of Contents:

*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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