

Next-Gen Biometric Authentication Market Size, Share & Trends Analysis Report By Technology (Fingerprint Recognition, Facial Recognition, Iris Recognition), By Component, By Authentication Type, By End Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Market Size & Trends

The global next-gen biometric authentication market size was estimated at USD 28.76 billion in 2024 and is projected to grow at a CAGR of 27.1% from 2025 to 2030. Rising cybersecurity risks and frequent data breaches have increased the demand for more secure authentication methods beyond traditional passwords.

The widespread adoption of smartphone-based fingerprint authentication and government-backed biometric identification programs contributes significantly to market growth. Additionally, the increasing use of biometric attendance and access control systems in workplaces supports the current market scale. These factors collectively establish biometric authentication as critical in securing digital and physical environments.

Moreover, the market growth is driven by expanding applications of contactless biometric technologies in public spaces, such as airports and retail stores, which enhance user convenience and hygiene. Advances in 3D facial recognition and liveness detection techniques improve the accuracy and security of biometric systems, reducing the risk of spoofing. Integrating biometric authentication in digital identity verification processes and the growing use of mobile biometrics in e-governance services further

stimulate demand. In addition, innovations involving artificial intelligence, blockchain technology, and behavioral biometrics broaden the scope and effectiveness of next-gen biometric solutions across various sectors. For instance, in September 2024, NEC Corporation launched a biometric authentication system capable of rapidly verifying large numbers of individuals simultaneously, even while they are in motion. The system employs advanced facial recognition technology that analyzes movement patterns and clothing characteristics to identify people in crowded environments accurately.

Furthermore, continuous improvements in AI and machine learning algorithms increase authentication accuracy and reduce false positives, making biometric systems more reliable. The rise of decentralized finance and the need for secure identity management encourage adoption in emerging digital platforms. Regulatory frameworks such as GDPR and stringent Know Your Customer (KYC) norms in banking reinforce the necessity for secure biometric solutions. Together, these factors support the ongoing integration of biometric authentication into diverse industries, driving sustained market growth.

Global Next-Gen Biometric Authentication Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2017 to 2030. For this study, Grand View Research has segmented the global next-gen biometric authentication market report based on the technology, component, authentication type, end use, and region.

Technology Outlook (Revenue, USD Million, 2017 - 2030)

Fingerprint Recognition

Facial Recognition

Iris Recognition

Voice Recognition

Palm Vein Recognition

Signature Recognition

Others

Component Outlook (Revenue, USD Million, 2017 - 2030)

Software

Services

Authentication Type Outlook (Revenue, USD Million, 2017 - 2030)

Single-Factor Authentication

Multi-Factor Authentication

End Use Outlook (Revenue, USD Million, 2017 - 2030)

Government

BFSI

Consumer Electronics

Healthcare

Transportation & Logistics

Defense & Security

Others

Regional Outlook (Revenue, USD Million, 2017 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

Australia

South Korea

Latin America

Brazil

MEA

UAE

South Africa

KSA

Companies Mentioned

HID Global Corporation

IDEMIA

Suprema, Inc.
Thales Group
Fujitsu
NEC Corporation
EyeVerify, Inc.
Synaptics Incorporated
Aware, Inc.
Qualcomm Technologies, Inc.

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