

Global Dual Interface Payment Card Market Assessment, By Card Type [Debit Cards, Credit Cards, Prepaid Cards], By Issuance Channel [Bank Branches, Online Platforms, Third-party], By End-user [Consumer, Merchant], By Region, Opportunities and Forecast, 2018-2032F

Market Report | 2025-07-31 | 225 pages | Market Xcel - Markets and Data

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Report description:

Global dual interface payment card market is projected to witness a CAGR of 15.08% during the forecast period 2025-2032, growing from USD 10.08 billion in 2024 to USD 30.99 billion in 2032. The global dual interface payment card market is experiencing robust growth, primarily driven by the rise in secure, contactless payment technologies and the expansion of digital financial services. Dual interface cards, which combine both contact (chip-based) and contactless (NFC) functionalities, offer enhanced user convenience, faster transaction processing, and improved security, making them a preferred solution across the banking, retail, and transportation sectors.

The global dual interface payment card market is expected to experience substantial growth due to technological advancements in payment card chips and the increasing adoption of contactless payment technologies. The market is driven by the growing adoption of Contactless payment methods, which utilize technologies such as Near Field Communication (NFC) and Radio Frequency Identification (RFID). These technologies have led to improved functionality for dual interface cards, making them more convenient by providing users with a secure method to perform both contact and contactless transactions.

Dual interface cards provide users with more flexibility, faster transaction speeds, and lower checkout times, stimulating consumers unconsciously to switch towards dual interface payment solutions. Additionally, dual interface cards offer features such as long-life cards, tap-to-pay options, and higher levels of fraud protection, which contribute to their growing appeal among users and merchants. The increasing demand for contactless transactions (specifically by small businesses and banking customers) continues to drive the market's growth. The industry continues to witness fintech companies partnering with card manufacturers to develop biometric-enabled dual-interface cards and push the boundaries of innovation. However, concerns about contactless payment security, hardware upgrades at merchant terminals, and the high cost of card production remain critical barriers to

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growth. Nonetheless, ongoing investments in innovation and manufacturing efficiencies should help mitigate these barriers and future growth trajectories.

For instance, in April 2025, Thales S.A. announced its D1 real-time, cloud-native payment issuing platform designed to revolutionize smart card issuance and infrastructure. With the ability to support over 200 million active cards, D1 enables banks and fintechs to offer services such as virtual cards, Click-to-Pay digital issuance, and dual-interface contactless cards, all through a modular API-first model. This launch addresses the growing demand for secure, scalable, and rapidly deployable alternative payment solutions, accelerating the global adoption of dual interface card technology and tokenization, particularly in digitally mature markets such as North America and Europe.

Rising Demand for Contactless Payments Drives Global Dual Interface Payment Card

The global dual interface payment card market is experiencing significant growth, fueled by the rising demand for contactless payments. Consumers and businesses increasingly favor the convenience, speed, and security of tap-and-go transactions, particularly since the pandemic. Dual interface cards, which support both contactless (RFID/NFC) and traditional chip-and-PIN transactions, offer enhanced flexibility and compatibility with existing payment infrastructures.

Financial institutions and card issuers are adopting this technology to meet consumer expectations for seamless transactions while ensuring robust security against fraud. Regions such as Europe and North America lead the adoption, while emerging markets in the Asia-Pacific are catching up rapidly. With advancements in payment technology and growing digitalization, the dual interface payment card market is poised for continued expansion in the coming years.

For instance, in March 2025, Visa Inc. revealed that the Tap to Phone solution, which enables merchants to accept contactless payments from consumers using smartphones equipped with NFC, has noted a level of global adoption that has increased by 200% in the last year alone. The most significant growth was in the U.S., UK, and Brazil, with a combined increase of 234%. The camping growth figures reflect a distinct worldwide trend of mobile-first, secure, and hardware-free payment. Conversion payment products experience an uptick, as well as growing consumer demand for fast, contactless transactions. The increasing demand is addressed by the accelerated issuance and usage of dual interface payment cards to support a new payment ecosystem.

Technological Advancements and Biometric Integration Drive Market Growth

Innovations in smart card technology are shaping the future of dual-interface payment cards globally in the payments arena.

Developments in biometric authentication (e.g., fingerprints), more sophisticated EMV chip technology, and RFID/NFC advancements are rapidly transforming dual interface cards into highly secure and user-friendly methods of payment. The focus on security and PKI provisioning to ensure authorization of high-value transactions is forcing financial institutions to rely more on biometric-enabled payment cards, relying on touch sensors for identity verification and removing the requirement for PINs. New advancements in mobile card enrollment and card composition with metal have enhanced the strength and usability of cards across various applications. All these advances demonstrate increased security, acceptance, and openness in card policies. Emerging technology that directly enhances user confidence in the payment process is aligned with global government regulatory standards to improve overall consumer and merchant education on fraud assurance and data safeguarding options available now and in the future. As users and merchants competed for safe, fast, and flexible transaction methods, dual interface cards utilizing advanced technical features will be the new digital payment option.

For example, in January 2025, IDEMIA Secure Transactions introduced a biometric dual interface payment card with phone-based fingerprint enrollment. The solution comprises a mobile app and a USB-C device, which enables seamless fingerprint enrollment. Once enrolled, users can make PIN-free, contactless transactions. It represents a clear shift in how the market desires security, convenience, and sophisticated card payment solutions.

Credit Card Segment Dominates Global Dual Interface Payment Card Market Share

The credit card segment leads the global dual interface payment card market due to its high level of use, particularly for large transaction amounts, frequent transactions among consumers, and focus on urban, digitally mature regions. Consumers value dual-interface credit cards for their contactless features, which provide convenience, safety, and benefits such as rewards.

Financial institutions are happy to issue dual-interface credit cards as examples of their premium card offerings. Features such as biometric authentication, metal card finishes, and mobile-based onboarding solutions are being adopted in credit cards before other card products, which demonstrates the credit card segment's role as a leader in technology adoption, innovation, and overall market share.

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For instance, in January 2025, LIFE CARD, one of Japan's largest credit card issuers, partnered with IDEX Biometrics ASA to launch the country's first biometric dual interface credit card. With this card, users can authenticate transactions using the card's embedded fingerprint sensor, enabling PIN-free contactless payments and chip-based transactions. The launch exemplifies how credit cards are backing the access-controlled, contactless dual interface category, embedding some of the highest security credential capabilities in the market and addressing the adoption rates in digitally mature markets.

North America Dominates the Global Dual Interface Payment Card Market Size

North America is also the leading region in the global dual interface payment card space. Early adoption of advanced payment technology, combined with outstanding consumer awareness and a robust financial infrastructure, has positioned North America at the forefront. The region has witnessed rapid growth in contactless transactions due to the widespread deployment of NFC-enabled POS terminals, the issuance of EMV-compliant cards, consumer demand for security and convenience through tap-to-pay, and the strong perception of tablets and phones. Furthermore, the aging infrastructure of the region and legislative support for securing digital payments have also contributed to the market's maturity in North America. Most large Canadian and U.S. based banks are deploying dual-identity credit and debit payment cards in collaboration with global card manufacturers or fintechs and combining them with loyalty rewards, biometric security features, and eco-friendly materials. Lastly, industry players such as CPI Card Group, HID Global, and IDEMIA USA have all contributed to product development and advancement in North America.

For instance, in May 2025, Giesecke+Devrient GmbH (G+D) launched the Convego Secure Code dual interface payment card in North America. The card features a dynamic CVV displayed on an e-ink display to combat card-not-present fraud. The solution is battery-free, works with existing point-of-sale (POS) systems, and highlights North America as a leader in the adoption of modern payment technologies that resist fraud.

Key Players Landscape and Outlook

Strategic investments and technological innovation drive the global dual interface payment card market, led by leading players. Companies at the forefront of secure and contactless payment solutions, such as Thales Group, IDEMIA, and Giesecke+Devrient GmbH, have continually challenged and innovated with their offerings. Many have partnered with semiconductor manufacturers and cloud providers to push the limits and broaden card capabilities to include biometric authentication, dynamic CVV display, and sustainability. As competition intensifies, industry leaders are increasingly focusing on partnerships within their secure supply chains and creating an environment of regulatory compliance to remain competitive and meet consumer demands.

For instance, in August 2024, CPI Card Group Inc. partnered with Rippleshot, an AI-driven fraud prevention firm, to integrate cloud-based fraud protection tools into its dual interface card services. This collaboration aims to reduce fraud-related costs and enhance customer trust, particularly in prepaid and small business card programs, highlighting CPI's strong presence in this segment of the market.

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