EMV® Contactless

Supporting seamless and secure touchless payments

EMV® Contactless makes it possible for merchants around the world to accept contactless payments seamlessly and securely. Consumers can follow a familiar payment process to make secure, reliable in-store payments with contactless chip cards and NFC (Near Field Communication) enabled mobile devices.

By The Numbers:

Contactless[1] payments are on the rise

Contactless payment card usage around the world has increased by 30% over the past two years

Source: NFC Forum and ABI Research: The Consumer Attitudes, Experiences and Understanding of NFC Technology Survey

By 2024, digital wallets will account for 30% of all in-store payments globally

Source: FIS: Global Payments Report

90% of face-to-face payment transactions in the UK are contactless

Source: Lloyds Bank

60% of card payments in Sweden are contactless

Source: Sveriges Riksbank: Payments in Sweden

40% of in-store payments in the Asia-Pacific region are contactless

Source: FIS: Global Payments Report

45% of Americans use tap-to-pay

Source: Mercator Advisory Group: 2022 North America Payments Insights

How Do EMV Contactless Payments Work?

EMV Chip[2], EMV Contactless[3], and EMV Contactless Kernel Specifications together define the requirements for chips and acceptance terminals anywhere in the world to communicate and process contactless transactions seamlessly and securely.

01 *Consumer taps their chip card or NFC enabled mobile device on the terminal.*

02 *The chip exchanges information with the chip reader in the terminal to complete the transaction.*

03 *A one-time use security code is generated for every transaction to safeguard against fraud.*

[1]*Contactless payments statistics included are not specific to EMV Contactless transactions.*
[2]*EMV Chip refers to EMV Integrated Circuit Card Specifications for Payment Systems.*
[3]*EMV Contactless refers to Book A, B and C-X.*

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Ways To Pay With EMV® Contactless

Card

WHAT:
Contactless payment cards with chip.

HOW:
Tapping chip card against a terminal.

Mobile Device

WHAT:
Smartphone, watch, wristband or other mobile device that uses NFC technology to act as a contactless chip card.

HOW:
Tapping device against a terminal.

Did you know?

EMV® Payment Tokenisation offers enhanced security for contactless payments made with mobile devices, such as mobile wallets, by replacing valuable card data in a transaction with a payment token, which is worthless if stolen.

Benefits Of EMV Contactless

EMV Contactless supports the growing use of contactless technology for convenient and reliable in-store payments.

Global acceptance

Merchants worldwide can accept EMV Chip-based contactless payments seamlessly and securely.

Convenient payment

Consumers can follow a familiar payment process to make fast, secure and reliable in-store payments, wherever they are in the world.

Secure transactions

EMV Chip technology generates a one-time code to secure the transaction and safeguard against fraud.

EMV Contactless Kernel Specification

EMVCo developed an EMV Contactless Kernel Specification to meet industry demand for an EMV Contactless Kernel that can be used by all stakeholders globally for seamless and secure contactless acceptance. A kernel is software that enables payment acceptance devices (such as point-of-sale terminals and ATMs) to process transactions.

Did you know?

EMVCo manages and licenses the Contactless Indicator, a globally recognised consumer facing mark that demonstrates an EMV Contactless payment can be made. This is supported by the Contactless Symbol, signifying that a payment terminal can accept EMV Contactless payments.

Contactless Indicator

Contactless Symbol

For more information on EMVCo please visit:

www.emvco.com

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