Edge-enabled contactless checkout

Convenience stores and groceries are turning to edge computing to deliver seamless, contactless checkout—leveraging AI/ML, computer vision and secure, low-latency connectivity to deliver near real-time results and convenience.

How contactless checkout works

1. An edge-connected sensor at the front of the store recognises the customer’s phone through an app with unique IDs and payment information.
2. The customer picks up items to put in their cart, while cameras keep track of the items by connecting and transmitting images to the edge.
3. Exit sensor recognises the customer’s phone to get information on items as the customer exits with purchases and receives an automatic receipt on their phone.
4. Public cloud digests sensor and video data, then applies AI/ML and computer vision to track customers and identify items.

Potential benefits

- Increasing throughput to uplift revenue by 5+%\(^1\)
- Boosting revenue with inventory optimisation by 1-4%\(^1\)
- Improving staff productivity by an average of 5+%\(^1\)
- Driving a reduction in shrink by up to 4-5%\(^1\)

\(^1\) McKinsey manufacturing expert interviews, January 2022

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