

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

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¹McKinsey manufacturing expert interviews, January 2022