PD20 Secure Card Reader

Enable mobile payment with virtually any card on Zebra mobile devices

The digital payment revolution is here — mobile wallet and card-based payments are predicted to account for nearly 80 percent of all in-person transactions, while cash-based payments continue to decrease every year. With so many payment options, merchants need to stay nimble to process any card, anywhere — from store aisles to curbside pickup and pop-up shops. And with the PD20 you can — right on Zebra mobile devices.

The PD20 is an add-on module that turns Zebra compatible handheld mobile computers and tablets into mobile POS (mPOS) stations. You can purchase new devices with the PD20 solution or add the PD20 solution to your existing compatible devices. Now, retailers can enable payment for purchases anywhere in the store. Transit operations can enable validation and purchase of tickets on subways, light rails or buses. Hotels can complete check-in and check-out for guests when they walk in the door. Delivery drivers can take payment right at the customer's site. And more.

Turning Zebra mobile devices into a mobile POS is as simple as replacing the battery door with the PD20 combination Secure Card Reader and Secure Card Reader battery. And thanks to tight integration, the Zebra host device delivers power and data communications via the Zebra device USB port, providing a complete, seamless and ergonomic one-hand payment solution.

The result? Increased sales — with less POS infrastructure. Improved workforce productivity through more streamlined workflows. A better customer experience and increased customer loyalty through highly convenient and frictionless purchase paths. And a superior return on investment for your Zebra mobile devices.

Enable payment anywhere and anytime with your Zebra devices with the PD20. To find out how, please visit www.zebra.com/retail

Markets and Applications

Retail
- Supercenters
- Discount stores
- Department stores
- Specialty stores
- Convenience stores

Applications
- Line busting
- Assisted selling
- Off-site/outdoor purchasing
- Returns
- Pop-up sales
- Order online — pickup/pay in-store or curbside

Hospitality
- Amusement parks
- Restaurants
- Hotels
- Airports

Applications
- Ticket sales
- Pop-up sales
- Table-side payment
- Concierge sales
- Line busting
- Service upgrades (pay at gate)

Field Services
- Service calls
- Field repairs

Applications
- Payment for services

Transportation and Logistics
- Delivery
- Courier services
- Postal services

Applications
- Payment on delivery
- Field sales

Key features

Supports all card modalities — tap, swipe and insert

The PD20 has it all — NFC plus a Smart Card reader and Magnetic Stripe Reader (MSR), allowing customers to tap-to-pay with their digital wallets or NFC-enabled cards; insert a chip-enabled card or swipe MSR-based cards.

Certified for all major card brands

The PD20 is EMV Level 2 certified for contact and contactless payments for Visa®, Mastercard®, American Express®, Discover® and UnionPay® and Interac, allowing you to accept practically every type of credit card.

Fully integrated for trouble-free operation

The PD20 Secure Card Reader and Secure Card Reader battery form a single sled that replaces the existing battery on compatible Zebra devices. The host device's USB port provides seamless power and data communications.

Designed for comfort

The PD20 is designed to maintain the ergonomics of the Zebra device, which remains well-balanced in the hand, providing workers with all day comfort.

Utilize existing charging cradles and rugged boots

If you already own compatible Zebra devices, there's no need to buy new accessories. The existing charge cradles you already own will accommodate the Zebra devices with the PD20 attached. And the rugged boots will fit as well, allowing you to increase device ruggedness for outdoor and other demanding environments.

Full-shift power

The powerful Secure Card Reader battery that drives the PD20 and the Zebra host mobile device provides 10+ hours of power — plenty for the longest shift. And the included Power Management application programming interface (API) gives you the flexibility to easily control power usage and configurations to ensure that the battery delivers full-shift power.

PCI certified, right out of the box

The PD20 is PCI PTS 6.x certified — you just need to certify your payment application with your acquirer, simplifying deployment.

Development tools included

With the included PD20 Software Development Kit (SDK), you can use an existing payment application or create a new application for a new POS solution — the choice is yours.

Big benefits for your business — and your shoppers

Improve the in-store shopper experience — and loyalty to your brand

The ability to take payment for purchases anywhere eliminates long wait times at the checkout, improving the customer experience and the likelihood that customers will return to your store — 93 percent of shoppers say convenience is why they choose to shop at a specific store.[1]

Prevent lost sales

97 percent of shoppers have backed out of purchases due to lack of convenience.[1] But when you turn your Zebra devices into a mobile Point of Sale (mPOS), customers can pay for their purchases right at the moment the buying decision is made, wherever they are in the store. If an item is out of stock, instead of losing the sale, associates can order the item on the spot for delivery to the customer's home, providing in-aisle omnichannel fulfillment. The result? Increased sales — and profitability.

Increase cross-selling through improved customer engagement and clienteling

91 percent of shoppers are more likely to shop with brands that recognize, remember and provide them with relevant offers and recommendations.[2] When the same device that can ring up purchases can also put all available customer information at the fingertips of your associates, the result is the highly personalized service that boosts sales and customer loyalty.

Double device functionality — and value

Now one device performs two functions. The same mobile device that enables workers to improve productivity and customer service is also a Point of Sale, providing more value and increasing the return on your Zebra mobile device investment.

With the PD20, you can take any card-based payment anywhere — from the aisles to the curb of a store to the doorsteps of homes and businesses. With a fully integrated complete featherweight mobile payment module, you can do it all: tap, insert and swipe virtually any card, anywhere.

Specifications

Compatible Devices
TC52x, TC57x, TC52ax, TC53, TC58, TC73, TC78 Zebra mobile computers; ET40 8 in., ET45 8 in. Zebra tablets

PD20 Payment Card Reader Specifications

Physical Characteristics

Dimensions	2.3 in. W x 3.1 in. H x 0.6 in. D 58.1 mm W x 78.7 mm H x 15.2 mm D
Weight	2.5 oz./72.5 g
Buttons	One button to support multiple functions: On/Off and Bluetooth Pair confirmation
Connectors	USB Type C, 5 contact pads (USB + power ON/OFF pad)
Audio Features	Electromagnetic buzzer
Battery	Rechargeable LiPo battery; 3.7 V, 340 mAh
Reliability	1,000,000 magnetic card swipes; 500,000 chip card cycles
Power Supply	DC 5 V through USB or contact pads

Payment-Related Features

Magnetic Card Reader	Triple track bi-directional
Smart Card Reader	Landing type
Contactless Payments	VISA payWave; MasterCard Contactless; American Express ExpressPay; Discover D-PAS; Google Pay; Apple Pay

Payment-Related Features (continued)

Contactless Reader	ISO/IEC 14443 Type A; MIFARE Ultralight; MIFARE Ultralight C; MIFARE Plus 2K; MIFARE Plus 4K; MIFARE DESFire; ISO/IEC 14443 Type B; ISO/IEC 15693; JIS X 6319-4 – FeliCa; ISO/IEC 18000-3 - NFC

Connectivity

Wired Communication	USB 2.0 (device)

Performance Characteristics

OS Compatibility	Android 10 and above
Certificates	CE; FCC; PCI PTS 6.x; EMV Level 1; EMV Level 2; EMV Level 1 Contactless
Operating Temperature	14 °F to 104 °F -10 °C to 40 °C 5 to 90% RH
Storage Temperature	5 °F to 122 °F -15 °C to 50 °C 5 to 90% RH
Drop Tested	4 ft./1.2 m to vinyl tile
Box Contents	Card Reader device

Supported Card Brands

The PD20 accepts all major card networks

1. Growing Emphasis on convenience for today's consumers; National Retail Federation; January 14, 2020, https://nrf.com/media-center/press-releases/growing-emphasis-convenience-todays-consumers
2. Making it personal: why brands must move from communication to conversation for greater personalization; PulseCheck 2018; Accenture Interactive; https://www.accenture.com/_acnmedia/PDF-77/Accenture-Pulse-Survey.pdf