

# P4100

Contactless, multi-application PIN entry.



## Product Data

Hypercom's P4100 is the first universal contactless, multi-application PIN entry device designed to meet the rigorous PCI security standards. The sleek, compact device easily integrates with card payment terminals as well as leading electronic cash register systems (ECRs). This allows retailers to quickly take advantage of the increase in PIN-based and contactless card transactions.

## Key Features

- Intel® XScale® 32-bit processor
- Optional, contactless, ISO 14443 A & B compliant reader supporting American Express ExpressPay™, MasterCard PayPass™, and Visa's contactless card programs
- Multiple application support
- Designed to meet stringent security including PCI-PED, Triple DES encryption, DUKPT, MAC and high-speed 128-bit SSL
- Tamper-proof architecture
- Large, color active matrix screen or 16-grayscale graphic display with superior visibility in shade and full sunshine
- Large, hard keycaps with optional illumination
- Supports RS-422, RS-232, USB and WiFi for fast and easy integration
- Supports multiple vendors' payment terminals
- Small, flexible ergonomic design fits comfortably in the customer's hand allowing movement for enhanced privacy

Whether you're looking for a reliable payment terminal, innovative, value-add technology, or a complete electronic transaction management system, Hypercom can deliver. Our product portfolio ranges from basic credit authorization to full transaction transport and more. Hypercom is more than a one-stop shop for payment terminals, it's a provider of complete, end-to-end transaction solutions that expand the possibilities at the POS in ways that translate to greater profits.

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## Technical Specifications:

### Processor

- Intel XScale 200MHz, 32-bit processor

### Keypad

- Elastomeric: 14 keys; 10 numeric keys; hard keycaps, water splash-resistant; illuminated (optional)
- Reliability: 500,000 keystrokes (calculated)
- Privacy shield: clip-on (standard; permanently attached (optional))

### Display

- LCD: 240 x 320, 1/4 VGA color, 64K colors; 64 x 128, 16-grayscale (optional)
- Backlight: White; 50,000 hours (calculated)
- Resistive touch screen (optional)

### Card Reader

- Contactless payment: Optional; supports ISO 14443 A & B, American Express ExpressPay, MasterCard PayPass and Visa contactless standards
- Magnetic stripe: Tracks 1, 2 & 3
- Chip card: Optional; ISO 7816; 2 SAM sockets, illuminated entry
- Reliability: 400,000 reads (calculated)

### Communications

- RS-422 (standard)
- RS-232, USB Client V1.1, WiFi 802.11 (optional)

### Memory

- Up to 8MB Flash
- 16MB SDRAM

### Power

- Battery: 5-year lithium battery backup

### PIN Encryption

- DES: PIN-ANSI X9.8, MAC-ANSI X9.9 ANSI X9.24 Part 1
- Triple DES: ANSI X9.52
- Key management: Master/session keys and DUKPT

### Footprint

- 6.93 cm x 12.67 cm x 2.92 cm/2.73 in x 4.99 in x 1.15 in

### Environment

- Temperature: 0-45°C/32-115°F
- Humidity: Max 85%, non-condensing
- ESD: 12,000 volts

### Reliability

- 100,000 hours (MTBF calculated)

## Form

- Easy-to-use ergonomic design fits comfortably in the hand
- Compact size facilitates fast and secure PIN entry
- Large, color keys and touch screen aid in customer usability
- Optional privacy screen provides an additional level of security
- Tamper-proof architecture protects internal systems from intrusion.

## Function

- Meets stringent security requirements for PIN-based entry
- Keypad meets American Disability Act (ADA) and the National Institute of the Blind requirements
- Powerful processor provides fast Triple DES for secure encryption and protection of valuable cardholder information
- Large, color keys and touch screen aid in customer usability
- Optional contactless reader supports ISO 14443 A & B which includes American Express ExpressPay™, MasterCard PayPass™ and Visa's contactless cards.

## Flexibility

- Supports magnetic stripe, chip and contactless card readers. The bi-directional, magnetic stripe reader supports Track 1, 2, and 3; the chip card reader is EMV 4.1 Level 1 & 2
- Supports messaging for multiple vendors' terminals
- Optional WiFi version is available for wireless vertical market needs (i.e., true handover, etc.)
- Large, graphical touch screen supports screen logos and advertising to expand merchant capabilities at the POS in way that translate to greater profits.

### World Headquarters:

Hypercom Corporation | 2851 W. Kathleen Road, Phoenix, Arizona 85053, USA  
Tel: +1.602.504.5000 | Fax: +1.602.504.4655 | Web: www.hypercom.com

### Global Locations:

North America | Latin America | Asia/Pacific Rim | Europe | Middle East | Africa | Australia