

# Optimum P2100

The high-security PIN entry solution.



## Product Data

The Optimum P2100 entry device from Hypercom delivers superior processing power through its 32-bit technology and multi-application architecture. Its flexible design offers a range of chip and magnetic strip card reader configurations and supports use in both handheld and countertop environments.

## Key Features

- 32-bit RISC processor handles the higher security of intensive cryptographic functions such as RSA
- Easy EMV upgrade protects and extends life of terminal investment
- Ergonomically designed for easy cardholder use
- Large memory supports future application requirements

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.

# Optimum P2100

The high-security PIN entry solution.

## Technical Specifications:

### Processor

- RISC, 32-bit

### Display

- 64 x 128 pixels
- LED backlight

### Keyboard

- 16 hard plastic keys, water splash-resistant

### Card Reader

- Magnetic stripe: Tracks 1, 2 & 3 (standard), Tracks 2, 3 (optional), Tracks 1, 2 (optional)
- Chip card: ISO 7816; 3 SIM sockets
- Hybrid reader: (optional)

### Communications

- RS-232 (standard)
- RS-422 (optional)
- USB or Ethernet

### Memory

- 4MB Flash/8MB SDRAM (standard)
- 512KB battery-backed SRAM
- Secure memory: 512KB SRAM for applications, 512KB SRAM for data

### Power

- DC: 12 V, 0.3 A

### Security

- Physical: Intrusion detection and secure CPU

### PIN Encryption

- DES: Visa PED approved; PIN-ANSI X9.8, MAC-ANSI X9.9 Part 1-ANSI X9.24
- Triple DES: ANSI X9.52
- Key management: DUKPT or 12 master/session keys
- PIN Block ISO 9564
- RSA (optional)

### Footprint

- 3.76 in x 7.36 in x 2.36 in/9.6 cm x 18.7 cm x 6.0 cm

### Weight

- .29 lbs/0.13 kg

### Environment

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

### Privacy Shield

- A selection of privacy shields is available on request

### Cables

- Flat or curly
- A range of lengths available

### Colors

- Black with light gray chip card reader (standard)
- A full color range is available on volume requests

### Certifications

- Certified to global standards, including EMV Level 1 & 2 and Visa PED

## Easy

- Simplified keypad layout with internationally-recognized tactile identifiers and concave keys minimize keying errors
- Large graphic screen supports the use of international language characters
- Displays larger and more complete text.

## Flexible

- Provides simple and effective upgrade to EMV for both EPOS systems and payment terminals
- Optional EMV library minimizes certification requirements
- Design offers a range of chip and magnetic strip card reader configurations
- Supports use in both handheld and countertop environments.

## Security

- Fully compliant with international security and communication standards
- Certified to global standards, including EMV Level 1 & 2 and Visa PED
- Online/offline PIN protection
- Online data integrity protection
- Cryptographic support including Triple DES and RSA.

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