



► **Market Segments**

- Banks and financial institutions
- ATM locations
- Large retailers
- Department stores
- Grocery stores
- C-stores
- Gift card retailers

► **Approvals**

- PCI-PED approved
- PCI+ approved
- EMV Level 1 & 2
- TQM certified
- UK common criteria
- RoHS compliant

The High-Security PIN Entry Solution

The Optimum P2100 PIN entry device from Hypercom delivers superior processing power through its 32-bit RISC technology. Its flexible design offers a range of chip and magnetic stripe card reader configurations and supports use in both handheld and countertop environments. In addition to supporting debit and credit payment transactions, the P2100 device also handles gift and/or loyalty cards and other value-added services.

The P2100 PIN entry device has been ergonomically designed for easy cardholder use. Its high-contrast graphic LED screen and large color-coded keypad with concave keys, plus clear internationally recognized user prompts allows for fast data entry/key strokes.

The P2100 also has an integrated privacy shield that provides extra security during PIN entry. Fully compliant with international security and communication standards, the P2100 device is also certified to global standards, including EMV Level 1 & 2 and PCI-PED certification.



Large, easy-to-read keycaps



Integrated tall privacy shield for PIN entry



Flexible, wear-resistant hand-over cord

SECURE TRANSACTIONS, EASY-TO-USE



32-bit RISC processor ► Handles intensive cryptographic functions such as RSA

Easy EMV upgrade ► Protects and extends life of terminal investment

Ergonomically design ► For easy cardholder use

Environment support ► Use in both handheld and countertop environments

PIN protection ► Available in either online or offline capacity


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

CONFIGURATIONS

- Smart card reader
- Separate smart card and magnetic stripe reader
- Hybrid reader

CARD READER

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

COMMUNICATIONS

- RS-232 or USB
- Ethernet (optional)

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 (Standard Configuration with DC converter)
- USB & Ethernet configurations have external power ports

SECURITY

- **Physical:** Intrusion detection and secure CPU

PIN ENCRYPTION

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

FOOTPRINT

- 3.76 in (w) x 7.36 in (l) standard
- 9.6 cm (w) x 18.7 cm (l) standard

WEIGHT

- 1.28 lbs / 0.58 kg (standard)

ENVIRONMENT

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

PRIVACY SHIELD

- Integrated tall privacy shield
- A selection of other privacy shields are available on request

CABLES

- Flat or curly
- A range of lengths available

COLOURS

- Black with light gray chip card reader (standard)

CERTIFICATIONS

- Certified to global standards, including EMV Level 1 & 2, PCI-PED, PCI+, TQM, UK Common Criteria and RoHS

MOUNTING OPTIONS

- On stand or on counter

KEYPAD LABELING CUSTOMISATION

- English - 101 layout
- Swiss - 102 layout
- Dutch - 104 layout
- Selection of custom layouts available

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, PCI-PED, PCI+, TQM, UK Common Criteria and RoHS
- ▶ Online/offline PIN protection
- ▶ Online data integrity protection
- ▶ Cryptographic support including Triple DES and RSA

CONFIGURATIONS

SMART CARD READER

SEPARATE SMART CARD AND MAGNETIC STRIPE READER

HYBRID READER

WORLD HEADQUARTERS:

Hypercom Corporation
 8888 East Raintree, Suite #300
 Scottsdale, Arizona 85260 USA
 Tel: +1.480.642.5000
 Fax: +1.480.642.4655

www.hypercom.com

© 2008 Hypercom Corporation, all rights reserved. Hypercom is a registered trademark of Hypercom Corporation. The Hypercom logo is a trademark of Hypercom Corporation. All other products or services mentioned in this document are trademarks, service marks, registered trademarks or registered service marks of their respective owners. Product Specifications subject to change without notice.
 940568-001, Rev A October 2008