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The High-Security PIN Entry Solution

The Optimum P2100 PIN entry device from Hypercom delivers superior processing power through its 32-bit RISC technology and multi-application architecture. 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 Visa PED certification.



Large, easy-to-read keycaps



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
- Large memory capability** ► Supports future application requirements
- 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

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.

OPTIONAL ACCESSORIES

FLAT OR CURLY CABLES, IN VARIOUS LENGTHS

SELECTION OF PRIVACY SHIELDS AVAILABLE

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