

# Optimum H2210

Manual hybrid reader for self-service and unattended environments.



## Product Data

The Optimum H2210 is a compact, rugged and vandal-resistant card reading device ideal for integration into unattended environments such as petrol forecourts, car parking, ticket machines and self-service kiosks. The Optimum H2210 contains a powerful 32-bit ARM7<sup>®</sup> processor operating at 66MHz with 12MB flash memory, which contains the full EMV Level 2 kernel, providing fast transactions speeds.

## Key Features

- Compact reader for chip and magnetic stripe cards
- Rugged and vandal-resistant design for indoor and outdoor use
- Powerful 32-bit processor for secure, high-speed transaction processing
- Ideal for use in kiosks, ticketing, pay-at-pump, parking, self-checkout
- PCI and EMV Type approved for Chip and PIN transactions
- 12MB memory accommodates multiple applications
- EMV approved chip card reader
- Extended operating temperature range of -20°C to +60°C
- Tamper protection against unauthorized physical access and removal

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

- ARM7 66MHz, 32-bit processor

### Card Reader

- Magnetic stripe: Tracks 1, 2 & 3
- Chip card: ISO 7816; 3V and 5V asynchronous cards; T=0 and T=1 protocols

### Communications

- RS-232C, USB or Ethernet

### Memory

- 4MB Flash
- 512KB battery-backed SRAM for data and parameters
- 8MB SDRAM for program execution

### Power

- DC: 5-30  $\leq$ 3.6 W

### Footprint

- 3.35 in x 4.92 in x 1.57 in/8.5 cm x 12.5 cm x 4.0 cm
- Bezel: 2.68 in/6.8 cm

### Weight

- 1.32 lbs/0.6 kg

### Environment

- External Temperature: -20°C to 60°C/-4°F to 140°F
- Internal Temperature: 5°C to 60°C/ 41°F to 140°F

### Certifications

- PCI-PED approved
- EMV Level 1 and Level 2 approved

## Design

- Small and compact in design, the H2210 is loaded with functionality
- Suitable for indoor and outdoor environments, incorporating a front card gate preventing coins, dust, moisture and other harmful debris from entering the reader
- Compatible with other Hypercom self-service components, including the K1100, K1200 and S1100 PIN pads
- Perfect for integrating into existing self-service and unattended systems, providing a simple and cost-effective modular solution for EMV and Chip & PIN.

## Performance

- The reader connects to an external PIN entry device (PED) using a secure RS-232C link. The logic interface to the PED is software based and can be customer adapted allowing easier integration and upgrade path
- The electrical interface to the the host has a selection of interface options including RS-232C, USB and Ethernet. The power supply required by the card reader can be provided externally, or through an existing powered RS-232C or USB interface, within the extensive rage of 5-30 VDC, ideal for all unattended kiosks deployed in the market today
- Delivers the right combination of speed, security and ease-of-use.

## Security

- Fully compatible with global security and communications standards such as EMV
- Fast Triple DES for secure encryption and protection of valuable cardholder information with powerful 32-bit RISC processing engine
- Tamper-proof architecture protects against unauthorized physical access and removal of the device from within a payment kiosk.

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