



► **Approvals**

- PCI PED 2.x approved
- EMV approved
- Interac certified
- RSA secured
- RoHS compliant

► **Market Segments**

- Regional chains
- National chains
- Independent grocers
- Drug stores
- C-stores
- Specialty markets
- Hospitality

**Get More Value in a Small, Powerful Package Now Certified to the Highest Level of PCI PED Security**

The Optimum L4150, Hypercom's PCI PED online and offline approved, high-performance, multi-lane payment and advertising terminal is now PCI PED 2.x approved.

The Optimum L4150 PCI PED 2.x terminal includes MagTek's "Intellihead" Magnetic Stripe Reader (MSR) that automatically encrypts card track data as consumers swipe their cards on the L4150 terminal. Track data encryption can be extended to provide complete end-to-end encryption and facilitate PCI PA-DSS compliance — utilizing Hypercom's "HyperSafe®" product or other third party solutions. The Optimum L4150 PCI PED 2.x terminal also supports MagTek's MagnePrint®, an MSR Card Authentication system that helps eliminate counterfeit cards (card skimming).

The bright 65,536 color, 1/4 VGA display and integrated capacitive touch screen, which includes a transparent glass top screen, are designed to facilitate customer-activated transactions and to support marketing and promotional campaigns in the lane. The Optimum L4150 terminal can be configured with an optional, integrated Secure Keypad — to address the needs of the visually impaired during the transaction payment process.

The Optimum L4150 features a 200MHz, 32-bit Intel XScale® processor and multiple connectivity options. So much power, the highest level of security compliance in the market and all in such a small package. This is how you turn every lane into the secure *fast lane*.



Standard encrypting magnetic stripe reader



Electronic signature capture



Customizable bezel for merchant brand advertising

**SECURE PAYMENTS, UNSURPASSED PERFORMANCE**



- Intel XScale® 32-bit 200 MHz processor** ► *Fast transaction speed*
- Streamlined space-saver** ► *Small footprint*
- PCI PED 2.x approved (online & offline)** ► *Most secure terminal in its class*
- 1/4 VGA display** ► *Superior resolution and clarity*
- Hardened glass top** ► *Scratch resistance and superior visibility*
- Capacitive touch screen** ► *Supports finger and pen touch*
- Optional Secure Keypad** ► *To meet the needs of the visually impaired*
- Proven forms processing engine** ► *Assures rapid application integration*

# Optimum L4150

PCI PED 2.x

MULTI-LANE



SECURE PAYMENTS, UNSURPASSED PERFORMANCE

## TECHNICAL SPECIFICATIONS

### PROCESSOR

- Intel XScale 200 MHz, 32-bit processor

### DISPLAY

- Color: Active Matrix TFT
- Resolution: 1/4 VGA (320 x 240 pixel resolution)
- Touch screen: Capacitive glass

### CARD READER

- Magnetic stripe: Standard, integrated, bi-directional encrypting head, reads Tracks 1, 2 & 3
- Chip card reader: Optional, integrated, EMV or WIC, EMV4.1 certified; non-captive; ISO 7816; 3V & 5V cards; three SAM sockets
- Contactless payment: Optional, integrated, compliant with ISO 14443 A & B

### COMMUNICATIONS

- RS-232: One physical port, and an internal port for peripherals
- Powered USB: Supports both standard client USB and Powered USB
- Ethernet: Optional
- USB Host: Optional

### SECURE PIN ENTRY

- Virtual PIN pad on the L4150 display (standard)
- External P1310 PIN pad (optional)
- Integrated physical keypad can be added to any L4150 terminal (initially when the terminal is ordered, or added subsequently in the field)

### MEMORY

- Standard: 8 MB Flash / 16MB SDRAM (standard)
- High: 16 MB flash / 32 MB SDRAM (high)

### POWER

- AC: 100-240 V, 50/60 Hz
- DC: 12 V @ 700mA or 24 V @ 350mA

### 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: DUKPT and master / session keys

### DIMENSIONS

- 9.34 in (l) x 7.5 in (w) x 2.5 in (h)
- 23.72 cm (l) x 19.14 cm (w) x 6.44 cm (h)

### WEIGHT

- 1.9 lbs/0.86 kg approximate

### ENVIRONMENT

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

### COMPLIANCE

- UL/cUL listed (UL60950-1)
- IC: 1204B-078270338 (RFID)
- FCC Part 15B (ICES-003), Class A
- CE, C-tick, CCC
- FCC ID: NVA0708270338 (RFID)

## Highest Level of Customer Security on Every Lane

- ▶ Certified to PCI PED 2.x standards, the highest level of security available in the market today
- ▶ Integrated HyperSafe technology protects against unauthorized applications and PIN compromise attacks via our advanced standards-based POS Public Key Encryption using RSA technology
- ▶ HyperSafe also provides the means to receive debit and other symmetric keys remotely from authorized key loaders; reduces the chance of key compromise and overall key injection costs
- ▶ Easy-to-use interface allows customers to initiate all transaction types, which reduces costs associated with human error and fraud

## Usability Arrives with Cost-Effectiveness Built In

- ▶ Robust, capacitive glass touch screen, proven to provide high performance signature capture in high-volume retail environments, ensures value and reliability with the lowest maintenance and repair costs in the industry
- ▶ Capacitive stylus, with no on-board electronics, significantly reduces the cost for replacements
- ▶ Customizable bezel and large color screen allow retailers to expand their branding directly to the point of service and advertise company colors and logos on the device, which enhances a customer's buying experience and protects a retailer's brand investment
- ▶ Utilizing advanced hardware that includes the Intel XScale 32-bit, 200MHz processor enables the Optimum L4150 to provide both fast transaction speeds and solid investment protection for the future
- ▶ Optional Secure Keypad can be added to Optimum L4150 PCI PED 2.x terminals, either during terminal manufacture or added later in the field, for secure numeric entry on a physical keypad. Addresses the needs of the visually impaired.
- ▶ Powered by Hypercom's flexible and efficient Forms Processing Engine software, with available OPOS, JavaPOS and direct command interfaces, product integration can be achieved faster and at less expense than any other solution on the market today

## Fast Performance Comes Standard

- ▶ High performance 200 MHz processor ensures fast payment transaction processing, application and firmware downloads, and supports video animation (MPEG, GIF, SWF files)
- ▶ Flexible communications options including RS-232, Powered USB and Ethernet allows for easy integration with existing POS systems, which reduces the time it takes to develop, test and certify a custom application
- ▶ Bi-directional, encrypting magnetic stripe reader
- ▶ MSR card authentication system helps eliminate counterfeit cards
- ▶ Optional integrated EMV chip card and contactless readers

## Terminal Estate Management Services

- ▶ Standard 3 year manufacturer warranty (1 year for Secure Keypad shipped separately)
- ▶ Exciting new additional service offerings include: Premier15, Premier7 and Premier1
- ▶ The PremierGreen Recycle Program enables retailers to discard obsolete payment terminals Securely, Economically & in an Environmentally Safe manner

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## OPTIONAL ACCESSORIES



**REPLACEMENT STYLUS & TETHER**  
*Allows end-user to easily replace a worn or broken stylus. No service call required.*



**STAND ADAPTER**  
*Adapter allows end-user to utilize existing check stands to mount L4150. Reduces cost of ownership.*



**L4150 SECURE KEYPAD**  
*Tactile feedback to support the needs of the visually impaired. Simple installation process.*



**L4150 BASE MODEL**  
*Clean design to fit any environment.*



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