Optimum L4100

The perfect balance of cost, performance and security.

Optimum™ L4100

▸ Product Data

The Optimum L4100 is an innovative, sleek, easy-to-use payment device that offers highly secure, ultra-fast processing and enables you to extend your brand at the point-of-sale. The L4100 features a 32-bit Intel® XScale® processor, dual-head, bi-directional magnetic stripe reader and flexible communication connectivity to deliver fast data transmissions with existing POS systems. The color screen and customizable bezel allow retailers to introduce specialized marketing campaigns directly to the POS and create an enhanced, unique buying experience for the customer.

▸ Key Features

• Intel XScale 32-bit processor

• Dual head, bi-directional triple track magnetic stripe reader

• Dynamic 65,536 color 5.7" 1/4 VGA display

• Integrated contactless payment reader supports American Express ExpressPay™, MasterCard PayPass™ and Visa contactless programs

• Advanced screen protection system

• Signature capture capabilities

• EMV approved smart card reader

• Visa PED compliant

• Two RS-232 ports, high-speed USB (12Mbps), optional IBM USB, optional 10/100Base-T Ethernet with industry-standard RJ-45 connector

• Customizable bezel

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
- Intel XScale 200MHz, 32-bit processor

Display
- 5.7 in. VGA color (standard)
- Monochrome display (optional)
- Touch screen with screen protector; screen protector absence sensor prohibits use without screen protector in place.

Card Reader
- Magnetic stripe: Bi-directional, Tracks 1, 2 & 3 (standard); dual-head card reader (optional)
- Chip card: EMV4.0 certified; ISO 7816; non-captive; 3V and 5V cards; two 5V SAMs
- Contactless payment: Integrated (optional); compliant with ISO 14443 A & B

Communications
- Two RS-232 ports (if contactless payments reader is configured, only one RS-232 port is available); 12v/24v power-in or power-out; USB (non-powered, client-only, standard USB connector); optional 10/100Base-T Ethernet RJ-45 connector; optional IBM retail USB; optional compact flash, 3.3V cards only

Memory
- 4MB Flash/8MB SDRAM (standard)
- 8MB Flash/16MB SDRAM (optional)

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

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 and master/session keys

Footprint
- 8.39 in x 8.19 in x 3.46 in/21.3 cm x 20.8 cm x 8.8 cm

Weight
- 1.9 lbs/0.86 kg

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

Reliability
- 100,000 hours (MTBF calculated)

Cost-Effective

- Robust, pressure-sensitive 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
- Non-powered stylus, with no on-board electronics, significantly reduces the cost for replacements at an industry common breakpoint
- Auto-sensing screen protection system dramatically expands the life of the device and minimizes returns for repair due to screen damage. Unique design allows operators to quickly and easily replace protectors in the field to maximize life of the product and ensure the best appearance of screen information
- Screen backlight automatically turns off which extends the life of the backlight, saving both money and time
- Customizable bezel and large color screen allow retailers to expand their branding directly to the point of sale and advertise company colors and logos directly on the device, which enhances a customer's buying experience and protects a retailer's brand investment
- Advanced hardware and software architecture provides solid investment protection with fast transactions, up to 24MB of memory and Intel XScale 32-bit processor
- 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. Updates to transaction flow and screen content are quickly and easily managed due to the unique nature of Hypercom's application architecture.

Performance

- Advanced communications options including RS-232, non-powered and powered USB and Ethernet combined with Intel XScale 32-bit processor enables fast data transmission, which reduces transaction time
- Bi-directional, dual head magnetic strip reader and an easy-to-use interface help customers check out faster
- Full-featured terminal management system and flexible communications options allow for easy integration with existing POS systems, which reduces the time it takes to develop, test and certify a custom application
- 802.11b WiFi capable via compact flash option.

Security

- Easy-to-use interface allows customers to initiate all transaction types, which reduces costs associated with human error and fraud
- Scalable transaction framework meets all industry standards and PIN entry requirements
- Protection against unauthorized applications and PIN compromise attacks via our advanced standards-based POS Public Key Encryption using the RSA method. Using this method, the Optimum L4100 authenticates each downloaded application to ensure it came from a trusted source in accordance with PCI standards.