

Optimum M4100

Wireless payment in a compact, mobile design.



Patent Pending



Optimum M₄₁₀₀



Product Data

The Optimum M4100 redefines the mobile payment industry by integrating full payment functionality and security into a truly portable, compact design focused on the wireless market.

Its ergonomic form factor makes it user-friendly, so mobile workers will want to use it. The M4100 allows integration with enterprise management systems which enables true workflow automation and transfer of critical transaction information to the customer. The M4100 opens new dimensions of service and new markets by bringing full payment capability to remote Points-of-Service.

Key Features

- Intel® XScale® 32-bit processor
- Revolutionary form factor
- Large, color active matrix screen with superior visibility in shade and full sunshine
- Touch screen with signature capture
- Illuminated keypad, magnetic stripe and chip card slots
- Optional contactless payment configuration
- Large memory capacity enables multiple mobile applications
- Advanced power system for all day use
- Communications options including GSM/GPRS, WiFi and BlueTooth®
- Designed for PCI-PED and EMV standards
- Triple DES and SSL encryption
- Optional docking station with QuickCharge™ capability
- Optional fanfold printer

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

Keypad

- Elastomeric: 14 keys, 10 numeric; water splash-resistant, hard keycaps, illuminated

Display

- 240 x 320, 1/4 VGA color, resistive touchscreen; 64K colors, LED backlit
- Screen protector

Card Reader

- Magnetic stripe: Tracks 1, 2 & 3 standard; illuminated
- Chip card: ISO 7816, 2 SAM sockets, illuminated entry
- Contactless payment: Optional, ISO 14443 A & B

Communications

- GSM/GPRS, WiFi 802.11 G; Class 1 BlueTooth 2.0
- Peripheral port: Client USB; V.90, Ethernet via optional docking station

Printer

- Fanfold (optional): Top of the form detection, integrated, swappable battery
- Paper: 52mm x 70mm sheet size; 200 sheets per pack

Memory

- SRAM: 512KB (standard); 1MB (optional)
- Flash: 8MB (standard); 16MB, 32MB (optional)
- SDRAM: 16MB (standard); 32MB (optional)

Power

- Battery: Lithium-Ion, 3.6V, 1150 mA hour capacity; Coin, 3V, 5-year
- Charging: USB port, wall adapter, docking station (optional)

PIN Encryption

- DES: PIN-ANSI X9.8, MAC-ANSI X9.9, ANSI X9.24 Part 1
- Triple DES: ANSI X9.52
- Key management: 12 master/session keys and DUKPT

Footprint

- 2.73 in x 4.99 in x 1.15 in / 69.41 mm x 126.70 mm x 29.28 mm

Environment

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

Reliability

- 100,000 hours (MTBF calculated)

Cost

- Based on the proven Hypercom Optimum family and the Intel XScale processor, applications are easily migrated to the mobile M4100 platform family
- Modular design allows customers to purchase only the options needed (printer, docking station, etc.)
- Form factor designed for true mobility - reading magnetic stripe, chip and contactless cards, anywhere allowing the merchant to process wireless transactions from any location
- Brings full PCI-PED PIN-based debit to mobile payment devices. Signature capture feature allows the integration of applications that create charge-back savings and delivery of products and services verification
- Optional fanfold printer provides 200 receipts in a single pack - its receipt-sized paper reduces printer bulk, providing a truly portable, handheld platform.

Performance

- State-of-the-art, 64K backlit, color, active matrix screen offers a brilliant display visible in both shade and full sunlight
- Full-featured development environment and large memory capacity opens doors to custom software applications targeted at the needs of mobile merchants
- Hypercom's patent-pending, power management system and swappable Li-Ion batteries create an advanced power system for the M4100 and optional printer, maximizing battery life
- The M4100's advanced power management system means batteries can last up to eight hours between charges with over 10 hours of standby time. The M4100 can process up to 300 transactions on a single charge, thus offering mobile merchants hours of uninterrupted processing time
- Easily recharged using an optional wall adapter, docking station or computer USB port

Security

- Designed to meet global security and communications standards and guidelines such as EMV and PCI-PED
- Powerful processing engine provides fast Triple DES for secure encryption and protection of valuable cardholder information
- Tamper-proof architecture protects internal systems from invasion
- Hand-over form factor facilitates fast and secure PIN entry with ADA-compliant, backlit, color-coded entry keys
- Secure data transactions which exceed industry security standards for wireless products.

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