Optimum M2100

The perfect balance of cost, performance and security.

▶ Product Data

The Optimum M2100 is an easy-to-use wireless payment device that offers highly secure, ultra-fast transactions, that allows data transmission from anywhere without the constrictions of wiring. This technology enables customers to take control of the transaction process in a number of new markets, including hospitality, transportation and other mobile merchants. The M2100 can process up to 300 transactions on a single charge, making the device suitable for all day use. Combined with its 32-bit RISC processor, both magnetic stripe and chip card readers and graphical backlit display, the M2100 is a truly unique combination of performance, security, reliability and ease of use, which is the cornerstone of the Optimum family.

▶ Key Features

- MasterCard PTSP approved

- Wireless device allows mobile payment

- Supports GSM/GPRS or Bluetooth wireless technologies

- Powerful 32-bit RISC processor for high-speed transactions

- Easy-to-use interface conforms to international standards

- PED certified and EMV approved

- 12MB of memory accommodates multiple applications

- Supports multiple languages and currencies

- Includes fast Triple DES encryption

- Graphics-capable, 15 lines per second thermal printer

- Easy-to-load, jam-free printer

- Long-life battery handles up to 300 transactions

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.

Optimum **M**₂₁₀₀

Optimum M2100

The perfect balance of cost, performance and security.

Technical Specifications:

Processor
- 32-bit RISC processor

Keypad
- 16 keys, water splash-resistant

Display
- 64 x 128 pixels
- LED backlight

Card Reader
- Magnetic stripe: Tracks 1, 2 & 3 (standard);
- Chip card: EMV 4.0 Level 1 and 2 certified; ISO 7816; 3 SAM sockets

Communications
- GSM/GPRS, Bluetooth

Printer
- Drop-in loading, thermal technology, 384 dots per line, 60mm feed per second
- Paper roll: 57 mm x 50 mm

Memory
- Flash: 4MB
- SDRAM: 8MB (standard)
- SDRAM battery backup: 512KB

Power
- AC: 100-240 V, 50/60 Hz
- DC: 7.5 V, 4.5 A
- Battery: Lithium-Ion, 7.4V, 2000mAh

Security
- Intrusion detection and encryption coprocessor

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

Footprint
- 9.84 in x 4.33 in x 3.15 in
  25.0 cm x 11.0 cm x 8.0 cm

Weight
- 1.55 lbs/0.58 kg approximate

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

- Always online GSM/GPRS or Bluetooth communications ensure the device is always ready to transact electronic payments or send information via cost-effective wireless technology. In cases the device is not in range of wireless service, store and forward functionality is available
- Intuitive, color-coded keypad and easily identifiable card reader slots withstand high volumes of traffic, while decreasing transaction times and improving customer throughput
- Backlit, graphic screen is clear and easy to read, features-configurable fonts and can also display logos for advertising, providing the best possible guidance throughout the transaction while delivering a unique, low-cost marketing opportunity.

Performance

- Capable of process up to 300 transactions on one charge with long-life battery that delivers many hours of uninterrupted payment processing for mobile payment
- Fast transaction times through 32-bit RISC processor reduce communications costs, delivering data transactions in less than 10 seconds
- Increased marketing capabilities by displaying logos, icons and in-store messages on the screen and receipts, which allows merchants to expand marketing capabilities at the POS and increase customer retention
- Full-featured, secure terminal management system including local or web-based options enables users to download terminal software safely and easily
- Multiple, value-added applications can be implemented by merchants with 12MB memory capacity that can support one application with embedded feature-rich functions or several independent application modules.

Security

- Visa-PED approved device is 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 processing engine
- Tamper-proof architecture protects internal systems from invasion
- Hand-over form factor facilitates fast and secure PIN entry
- Fast SSL up to 2048 bits, which provides the most secure SSL over IP in the industry today.