

# Optimum T2100

The perfect balance of cost, performance and security



 **Optimum T<sub>2100</sub>**

## Product Data

The Optimum T2100 is an easy-to-use payment device that offers highly secure, ultra-fast processing. The T2100 features a 32-bit RISC processor, both magnetic stripe and chip card readers, graphical backlit display and flexible communication modules to deliver fast transaction times. It 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
- Powerful 32-bit RISC processor for high-speed transactions
- Easy-to-use interface conforms to international standards
- PED certified and EMV approved
- 12 MB of memory accommodates multiple, separate 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
- Easily supports various communication modules

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

- 32-bit RISC with 32-bit memory access

### Display

- 64 x 128 pixels; LED backlight

### Keypad

- 16 keys, water splash-resistant

### Magnetic Stripe Reader

- Tracks 1, 2 and 3

### Chip Card Reader

- EMV4.0 Level 1 and 2 certified; ISO 7816; 3 SAM sockets

### Communications

- One of the following:  
V.22bis, V.90, GSM/GPRS or ISDN;  
Peripheral ports: Either 2 RS-232 or  
RS-232 and RS-422

### Printer

- Drop-in loading, thermal technology; 57mm wide,  
50mm diameter; 384 dots per line resolution;  
60mm feed per second

### Memory

- 4MB Flash, 8MB SDRAM (standard)
- 512 KB battery-backed SDRAM

### Power

- AC: 100-240 V, 50/60 Hz
- DC: 7.5 V, 4.5 A

### Security

- Intrusion detection and encryption coprocessor

### Encryption

- 12 master/session keys or DUKPT; Triple DES,  
MAC X9.9, PIN Block ISO 9564;

### Footprint

- 9.84 in x 4.33 in x 3.15 in  
250 mm x 110 mm x 80 mm

### Weight

- 1.55 lbs/.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

- Various communication modules, including V.22bis, V.90, GSM/GPRS or ISDN ensure easy deployment of the device with existing networks
- Intuitive, color-coded keypad and easily identifiable card reader slots withstands high volumes of traffic, while decreasing transaction times and improving customer throughput
- Backlit, graphic display 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
- Advanced software enables dynamic currency conversion with support of multiple languages and currencies.

## Performance

- Fast transaction times through 32-bit RISC processor which reduces communication costs
- Increased marketing capabilities by displaying logos, icons and in-store messages on the display screen and receipts, which allows merchants to expand marketing possibilities 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 single application with embedded rich features and functions or several independent application modules.

## Security

- 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 card-holder information with powerful processing engine
- Tamper-proof architecture protects internal systems from invasion
- Hand-over form factor facilitates fast and secure PIN entry.

### World Headquarters:

Hypercom Corporation | 2851 W. Kathleen Road, Phoenix, Arizona 85053, USA  
Tel: +1.602.504.5000 | Fax: +1.602.504.4655 | Web: [www.hypercom.com](http://www.hypercom.com)

### Global Locations:

North America | Latin America | Asia/Pacific Rim | Europe | Middle East | Africa | Australia