



▶ **Market Segments**

- Retail and restaurant
- Small ticket sales
- MOTO
- e-commerce
- IP customers
- Dynamic currency conversion
- Check verification
- Gift and loyalty

▶ **Approvals**

- PCI PED approved
- EMV Level 1 & 2
- Interac certified
- MasterCard PTSP approved
- RoHS compliant

Optimum Performance with Maximum Security

The Optimum T4220 countertop terminal is the most capable IP and dial terminal in the industry today. Hypercom has combined the best-of-breed features of the Optimum family into this powerful IP device to suit any customer's needs - large or small.

The Optimum T4220 provides IP performance and security second to none. The Optimum T4220 comes standard with integrated PCI PED approved PIN entry capability, the safety of the HyperSafe®32 architecture and unrivaled IP transaction and download speeds. The OptimumT4220 also shares the same user interface as the T4200 family dial and wireless models for ease of migration and support.

The IP diagnostics application only found on Hypercom IP terminals is more than your average IP monitor, checking failure at the cable, in-store gateway, the ISP and then the processing host. It then clearly tells the user where the error occurred and then how to fix it! Don't just replace an IP terminal, fix the problem instead!

Equipped with more memory than competitor models, the Optimum T4220 accepts more applications to meet your needs now and in the future.



Small footprint



IP diagnostics



Colored port labels

SECURE IP FUNCTIONALITY WITH DIAL BACKUP



Powerful ▶ 32-bit ARM9 processor

Fast ▶ V.34 modem standard, IP downloads as fast as 2 minutes

Functional ▶ Full multi-application

Easy-to-use ▶ Help menus, IP diagnostics, single user interface and toolkit

Adaptable ▶ Optional EMV approved card reader

Value ▶ Integrated PCI PED approved PIN entry capability

Flexible ▶ Modular communications provide investment protection

Secure ▶ Meets all security standards - creates merchant retention


OPTIMUM SECURITY AND PERFORMANCE
TECHNICAL SPECIFICATIONS
PROCESSOR

- 32-bit ARM9

KEYPAD

- 19 buttons; PCI PED approved; water splash-resistant
- 6 navigation buttons
- ADA-style markings

DISPLAY

- FSTN LCD with graphics
- 160 x 80 resolution
- White LED, backlit

CARD READER

- **Magnetic stripe:** Bi-directional, Tracks 1, 2, & 3
- **Chip card:** Optional; EMV4.0 Level 1 & 2, ISO 7816
- Three SAM slots

COMMUNICATIONS

- **Primary:** 10/100Base-T Ethernet
- **Modem:** V.34/33.6Kbps
- **Ports:** RS-232 for peripherals, PIN port for external PIN pad

PRINTER

- SureLoad® clamshell design, drop-in loading, thermal technology, 384 dots per line
- 15+ lines per second
- **Paper roll:** 2.25", 50mm diameter

MEMORY

- **Total:** 24MB
- **Flash:** 8MB
- **SDRAM:** 16MB
- **SRAM (non-volatile):** 512K
- **SRAM Backup:** 5-year battery

POWER

- **AC:** 100-240V, 50/60 Hz
- **DC:** 7.5V, 2.8A

ENCRYPTION

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

FOOTPRINT

- 3.6 in (w) x 8.1 in (l) x 2.3 in (h)
- 91.44 mm (w) x 205.74 mm (l) x 58.42 mm (h)

WEIGHT

- 1.06 lbs/ 0.48 kg

ENVIRONMENT

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

Simple, Easy-To-Use Features

- ▶ SureLoad® thermal printer design with clear lid alerts cashiers to low paper conditions. The simple drop-in loading virtually eliminates paper jams and the large paper roll means more receipts between changes
- ▶ Large, ADA-style, 19-key layout allows for easy key recognition. The Clear, Enter, Cancel and "5" keys provide tactile feedback for visually-impaired customers
- ▶ Slim form factor makes it perfect for handover installations
- ▶ Color-coded port labels simplify service and support
- ▶ Industry-leading software includes the functionality necessary to introduce value-added opportunities to merchants

Fast, Time-Saving Performance

- ▶ Graphics-capable thermal printer allows merchants to print logos and coupons directly at the point of service
- ▶ V.34 modem allows you to place this unit as a dial first - IP later and gives the assurance of dial backup to IP
- ▶ The ARM9, 32-bit processor provides speed and functionality. It delivers four times the processing power and speed of an ARM 7 processor used in competitive devices

Unsurpassed Value

- ▶ Depot-upgradeable, modular communications provide a flexible platform that can quickly evolve as market requirements emerge. Provides investment protection and are easy to replace for faster service
- ▶ With more memory, 24MB standard, than competitive devices in its class, the Optimum T4220 easily handles software size increases due to regulatory requirements as well as the addition of value-added applications
- ▶ Every T4200 family model is PCI PED approved for PIN transactions
- ▶ The bright, white backlit display utilizes superior display technology to achieve a sharper image for maximum visibility
- ▶ Check imagers, PIN pads and contactless check readers can be connected using the peripheral port to provide more payment choices
- ▶ Secure design meets the most stringent security regulations in the industry, including PCI PED and PTSP. The HyperSafe32 architecture provides the ultimate protection against any unauthorized loading of applications

OPTIONAL ACCESSORIES

PRIVACY SHIELD

MONO CABLE SYSTEM

SUPPLIES

WORLD HEADQUARTERS:

Hypercom Corporation
 8888 E. Raintree, Suite #300
 Scottsdale, Arizona 85260 USA
 Tel: +1.480.642.5000
 Fax: +1.480.642.4655

www.hypercom.com

© 2007-2008 Hypercom Corporation, all rights reserved. Hypercom is a registered trademark of Hypercom Corporation. The Hypercom logo is a trademark of Hypercom Corporation. All other products or services mentioned in this document are trademarks, service marks, registered trademarks or registered service marks of their respective owners. Product Specifications subject to change without notice.
 940536-001, Rev C October 2008