



**JADESTAR**

*The Market's Most Stylish  
Payment Device*





# The Complete Combination of a Countertop Payment Device & Built-in PINpad

As not only is the use of traditional credit and debit cards rapidly increasing but also high security chip-based cards or smartcards are gaining widespread industry acceptance throughout the world, people are able to identify their own needs and their requirements tend to get more and more complex. Therefore, the payment solution and technology processing all of these transactions must be reliable and powerful to fulfill their expectations, and CyberNet's newly released **JADESTAR** is the perfect solution.

**JADESTAR**, the latest addition to CyberNet's innovative product lines, is the dependable and cost-effective solution to meet and satisfy your customers' varied demands for more secure and faster payment transactions.

## Exceptional Performance... Outstanding Power... Superior Security

Designed in 2 piece (handheld PINpad unit + cradle) sleek style, **JADESTAR** is an EFT-POS terminal featuring a powerful 32bit processor, high-speed 33.6Kbps modem and fast thermal printer to accelerate the whole process of transactions from a card swipe to printing of receipt.

With total security in mind, CyberNet built high security internal PINpad functionalities conforming to Visa PED requirements on **JADESTAR**. **JADESTAR** is the most competitive multi-function countertop terminal coupled with superior security PIN entry features, reducing the cost and space required for a separate PIN acceptance solution.

Moreover, **JADESTAR**'s handheld PINpad unit offers the cost-effective and the easiest way to upgrade an entry level payment terminal to a fully EMV-certified device. It can also be used with ECR (Electronic Cash Register) or PC to accept smartcards or process PIN based transactions.



**JADESTAR** is not only capable of handling the full spectrum of the latest payment capabilities but also taking advantage of CyberNet's forefront Java™-style operating system, **CyberSoft**, for multi-applications to run securely on a single terminal. With **CyberSoft** and ultimate hardware flexibility, **JADESTAR** offers the following benefits and features to you and your customers:

- Off the shelf application modules
- Available programming resources
- Interpreted language
  - Fast to program
  - Fast to debug
  - Fast to download
- Ease of use and installation
  - Plug & play
  - Large 128 x 64 pixel graphic display with backlit
  - Compact design saves precious counter space
  - Minimal training and helpdesk calls
- Ease of application migration

'C' based development environment, **CyberAPI**, is also available on **JADESTAR** for easy application development.

Together with all these rich-features, the new powerful **JADESTAR** offers a low cost of ownership to processors, ISOs, merchants and service providers. Why wait? Visit our website and call us now.





# Technical Specifications



## Handheld PINpad Unit

### Processor

- RISC 32bit (20 MIPS)

### Memory

- SRAM: 512KB (Option: Up to 2MB)
- Flash: 1.5MB

### Display

- 128 x 64 pixel graphic display
- Up to 8 lines x 21 characters
- Backlit

### Keypad

- 21 keys
  - 12 numeric keys
  - 4 function keys
  - 2 scroll keys
  - CANCEL, CLEAR & ENTER keys

### Magnetic-stripe card reader

- Tracks: 1&2 or 2&3
- Bi-directional

### Smartcard reader

- ISO7816 compliant
- EMV level I (2000) certified

### Security Access Module (SAM)

- 2 (Option: Up to 4)

### Security

- DES, 3DES encryption
- DUKPT, Master/Session key management
- Visa PED certified

### Physical dimensions

- 80.8mm (W) x 173.1mm (L) x 44.6mm (H)

### Weight

- 253g

IOS8583	VSDC	MCHIP	APACS30	PROTON	MONDEX	VISA CASH	SCRATCHLESS	LOYALTY	CLOCK	CALCULATOR
MCA (Master Control Application)										
VM (Virtual Machine CyberEngine)										
HAL (Hardware Abstraction Layer)										
Firmware Drivers										
Hardware										

## Cradle

### Modem

- Async: 33.6Kbps (Option: 2400, 56Kbps)
- Sync: 1200, 2400bps

### Peripheral ports

- RS232 x 2
- Telco x 1

### Printer

- 2" thermal
- 12.5 lines/sec
- Clamshell paper loading

### Power

- Input: AC 100V ~ 240V, 50/60Hz
- Output: DC 8.0V/3.0A

### Physical dimensions

- 86.1mm (W) x 245.7mm (L) x 101.4mm (H)

### Weight

- 629.5g

### Environmental

- Operating temperature: 0°C ~ 40°C
- Storage temperature: -40°C ~ 65°C

## Software Environment

### CyberSoft

### CyberAPI

EMV level II (2000) certified



## Software Development Tools

### CyberWrite

Since CyberWrite is a complete GUI, all the features of a windowing environment such as "Point & Click" and "Drag & Drop" visual programming methodology is supported, allowing users to create applications in an IDE that is delivered in Java™.\*

### CyberTerm

Applications written with CyberWrite can be tested and debugged on the host development system using CyberTerm, a PC based simulator to test and debug the applications before loading to any terminal or target devices.\*

\* Available on PC (Windows), Apple, Unix, Linux

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[www.cybernetww.com](http://www.cybernetww.com)

The logo for CyberNet Inc. features a stylized orange arc above the word "cybernet" in a bold, lowercase sans-serif font, followed by "inc." in a smaller, lowercase sans-serif font.

**cybernet** inc.