



JADEAdvantage

*The Market's Most Innovative
Payment Device*



The Most Competitive TOTAL Payment Device Ever

Competitively priced. Easy to use and install. Easily managed. **JADEAdvantage** is truly the most reliable payment device in the payment industry. The latest addition to CyberNet's innovative product lines, **JADEAdvantage**, is the dependable and cost-effective solution to meet and satisfy your customers' various demands for more secure and faster payment transactions.

Fully integrated **JADEAdvantage** is an EFT-POS terminal featuring a powerful 32bit processor and a 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 **JADEAdvantage**. This device is the most competitive multi-function countertop payment terminal with built-in superior security PIN entry features, reducing the cost and space required for a separate PIN acceptance solution.

Moreover, in addition to dial-up communications using 2400bps or 33.6Kbps (option) modem, **JADEAdvantage** supports the optional Ethernet communications with SSL encryption security that deliver a variety of advantages - super-fast transactions and always-on service.



Sleek Design...Reliable... Affordable Price

JADEAdvantage 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, **JADEAdvantage** 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 **JADEAdvantage** for easy application development.

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

Technical Specifications



Standard Configurations

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 soft 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)

Modem

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

Peripheral ports

- RS232 x 2
- Telco x 1

10/100 Base T Ethernet (Option)

- Standard RJ45 connection
- Supports static & dynamic IP address
- 1 x RJ45 or mini-din serial port
- Speed: 1200bps ~ 115Kbps
- Flow control
 - Software (AT command)
 - Hardware (RTS/CTS)
- Supporting protocols
 - ARP, IP/ICMP
 - TCP, UDP
 - DHCP client
 - PPPoE
- Security
 - User ID & password
 - Data encryption: SSL

Security

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

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

- 86.4mm (W) x 212.6mm (L) x 94.5mm (H)

Weight

- 537g

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



