cybernet inc.

JADEAdvantage

The Market's Most Innovative Payment Device

cybernet inc

CARD

cybernet for EMV payment

JADEAdvantage

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 requirments 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.

EMV APPROVED LEVELS I & II

Technical Specifications

ISO 9001 CERTIFIED

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 managment
• 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℃ ~ 40℃
• Storage temperature: -40℃ ~ 65℃

Software Environment

CyberSoft
CyberAPI
EMV level II (2000) certified

Member STiP Consortia

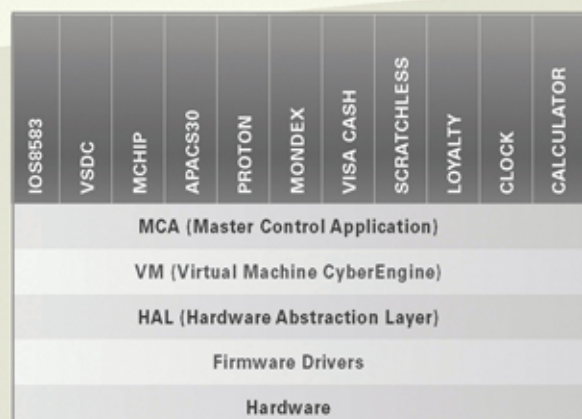## Software Development Tools

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

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										

EMV APPROVED LEVELS I & II

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