

## BENEFITS AT A GLANCE

- Superior performance for faster transaction processing, including EMV smart card
- Optional IP-based or dial communications
- Multiple payment and value-added applications
- Advanced security including SSL

## Ultra-High Performance with Flexible, Secure Communications

VeriFone's V<sup>x</sup> 510 offers extraordinary performance for payment and value-added applications — including data-intensive, EMV smart card transactions — and dramatically reduces transaction time to just a few seconds. Leveraging existing SoftPay and Verix applications allows merchants to get up and running quickly and efficiently, while increased memory facilitates the addition of revenue-generating applications, such as telco, loyalty and gift.

In addition to a dial connectivity option, the V<sup>x</sup> 510 also offers an option combining both Ethernet

and dial communications — allowing the built-in dial capability to be used today then switched to Ethernet at any time. Or merchants with broadband service already installed can immediately process payments through this lightning-fast, always-on connection. It's simple, reliable and future-proof.

The V<sup>x</sup> 510 also offers the latest and most reliable security protections — including SSL, 3DES encryption, Master/Session and DUKPT key management and VeriShield file authentication — along with VeriFone's unmatched reliability and quality.



# V<sup>x</sup> 510

Big Things in a Small Package

# Vx 510



## SPECIFICATIONS

### Processor

200 MHz ARM9 32-bit RISC processor

### Memory

3 MB – dial only  
6 MB (4 MB of Flash, 2 MB of SRAM)

### Display

128 x 64 pixel graphical LCD with backlighting; supports 8 lines x 21 characters

### Magnetic Card Reader

Triple track (tracks 1, 2, 3), high coercivity, bi-directional

### Smart Card Reader (Optional)

ISO 7816, 1.8V, 3V, 5V or synchronous and asynchronous cards; EMV Level 1 and 2 Type approved

### SAM Card Reader (Optional)

3 Security Access Modules (SAMs)

### Keypad

3 x 4 numeric keypad, plus 8 soft-function keys and 4 screen-addressable keys

### Peripheral Ports

Two RS-232 ports, one telco port and one optional Ethernet port support communications and peripherals including PIN pads and check readers

### Printer

Integrated thermal with graphics capabilities, 18 lines per second, 24 or 32 columns; standard roll paper 58 mm (2.25 in.) x 25 M (82 ft.), single ply

### Modem

Standard 14.4 kbps modem supporting Bell 103/212a, CCITT V.21/V.22/V.22bis/V.32/V.32bis (300/1200/2400/9600/14400 and HC Fast Connect for 1200bps; optional Fast POS for 9600)

### Protocols

Application selects between asynchronous protocols (Visa 1, Visa 2, and others) and synchronous protocols (including ISO 8583/SDLC)

### Security

SSL v3.0, 3DES encryption, Master/Session and DUKPT key management; PED approved; VeriShield file authentication

### Physical

Length: 209 mm (8 in.); Width: 102 mm (4 in.); Height: 72mm (2.8 in.) Weight: Terminal/500 g (1.10 lbs.), Full shipping/1,326 g (2.84 lbs.)

### Environmental

0 to 40 C (32 to 104 F) operating temperature; 5% to 90% relative humidity, non-condensing

### Voltage

AC input 100 - 240 VAC, 50/60 Hz; DC Output 8.6 - 9.4 VDC, 4.0 Amp

## Features & Benefits

### Exceptional Performance

- 200 MHz 32-bit RISC processor – the fastest processor in the industry for multi-tasking capabilities
- Up to 6 MB of lightning-fast DMM (dynamically managed memory) provide exceptional processing on debit, credit, EBT and value-added transactions – including EMV smart card
- Optional Ethernet and dial capabilities are built into the same device so it is easy to switch from one to the other – without attachments
- File compression, used in conjunction with high-speed networks or high-speed modems greatly streamlines application downloads
- Supports IP-based transactions, building upon the VeriX IP infrastructure and its suite of familiar TCP/IP tools
- Exceptional graphics-handling by both display and printer quickly renders logos, graphical fonts and character-based languages

- Integrated high-speed thermal printer is quiet and fast (18 lines per second) with drop-in, "clam shell" loading to simplify paper changing and eliminate jams

### Easy to Use

- Intuitive ATM-style interface, large backlit display, ergonomic keys, and bold menu prompts minimize clerk training, speed lines, and reduce errors
- Triple-track, high-coercivity card reader handles most magnetic-stripped cards, including mini-cards
- Includes built-in smart card reader and Security Access Modules (SAMs) to support multiple smart card solutions and offer added data protection
- Internal PIN pad for debit and other PIN-based applications
- Sleek and stylish, with an extremely small footprint and "hand-over" design for customer PIN entry

### Advanced Security And Superior Reliability

- Latest security protections include advanced 3DES encryption, Master/Session and Derived Unique Key Per Transaction (DUKPT) management, and sophisticated VeriShield file authentication and tamper resistance
- PED approved for debit and other PIN-based transactions, and has earned EMV Level 1 and Level 2 Type approval
- Application separation at both the hardware and software level minimizes or eliminates the need to recertify existing payment applications every time an application is added or modified