



V^x 510

Big Things in a Small Package

ULTRA-HIGH PERFORMANCE WITH FLEXIBLE, SECURE COMMUNICATIONS

VERIFONE'S V^x 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^x 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^x 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.

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





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-striped 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
- V^x 510 is PED Approved by Visa and MasterCard 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

SPECIFICATIONS

Base Terminal 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

Primary Smart Card

ISO 7816, 1.8V, 3V, 5V or synchronous and asynchronous cards; EMV certified (optional smart card)

SAM Card Reader

3 Security Access Modules (optional 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 supports 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