

# VIVID PERFORMANCE THAT ENDURES

VeriFone's VX 820 PIN pad puts unmatched payment power and convenience into consumers' hands. Incredibly easy to use and read in any environment, the slim, stylish payment device provides access to limitless capabilities — while ensuring unsurpassed security and reliability thanks to the VX Evolution platform.

# VX 820

## Extraordinary Ease And Convenience

- Good looking: sleek, silver and ergonomic design is not only highly attractive, but also provides for easy handling
- Great viewing: the high-resolution, 3.5" color display, one of the largest on a handover device, ensures terrific readability and better branding opportunities
- Illuminating, blue backlit keypad and intuitive card handling make the device pleasing to look at and lead to fewer consumer errors in any lighting
- Simplified, single-port connectivity for any environment lets merchants choose from USB, serial or Ethernet connectivity
- Can also be used as part of VX 820 DUET for a complete solution, including a feature-rich, all-in-one base unit
- Backward compatibility with existing applications for V<sup>x</sup> 810 helps protect your investment

## A Handful Of Power And Performance

- All your needs in hand – fully programmable PIN pad securely and efficiently handles credit, PIN-based debit and EMV smart card transactions
- Optional, integrated contactless capability – including NFC support – is built in, providing a streamlined path for merchants to penetrate new markets
- Blazing fast 400 MHz ARM 11 processor and 160 MB of memory enable merchants to simultaneously run more applications and makes short work of transactions
- Excess of 500 MB of memory is available to offer almost limitless capacity for loyalty-building, profit-producing, value-added applications
- The landed smart card reader is rated for 500,000 insertions to help merchants capitalize on robust and demanding EMV environments

## Security And Reliability That's Second To None

- The PIN pad is built on the VX Evolution platform, with its next-generation security and reliability – so nothing is safer to use
- Exceeds industry standards by reaching PCI PTS 3.0 to safeguard sensitive data
- Goes even further with VeriShield Protect – eliminating usable data from merchant applications and networks through end-to-end encryption – so it's virtually unreadable
- Built-in security lock slot for a convenient way to lock and secure your VX 820



**Processor**  
400 MHz ARM11 32-bit RISC processor

**Memory**  
160 MB (128 MB of Flash, 32 MB of SDRAM) standard, can exceed up to 500 MB

**Display**  
240 x 320 pixel color TFT (QVGA) supports up to 26 lines x 26 characters  
8 soft-function keys and 4 screen-addressable keys via touchscreen

**Magnetic Card Reader**  
Triple track (tracks 1, 2, 3), high coercivity, bi-directional

**Primary Smart Card**  
ISO 7816, 1.8V, 3V, 5V; synchronous and asynchronous cards; EMV Approved

**SAM Card Reader**  
3 Security Access Modules (SAMs)

**Keypad**  
3 x 4 numeric keypad, plus screen addressable  
Keys can be simulated on touchscreen

**Peripheral Ports**  
Single multi-port connector which supports RS-232, USB device, USB Host, Ethernet

**Security**  
3DES encryption, Master/Session and DUKPT key management; VeriShield file authentication; PCI PTS 3.0 approved

**Physical**  
Length: 173 mm; Max Width of 85mm; Height: 40 mm;  
Weight: VX 820 PIN pad 308g (0.68lb)  
Full shipping 890g (1.96lb)

**Environmental**  
0° to 50° C (32° to 122° F) operating temperature; 5% to 90% relative humidity, non-condensing

**Voltage**  
5-12VDC, 3.8W Max  
(Maximum consumption with backlight and contactless active)

**Contactless Applications**  
MasterCard PayPass M/Chip  
MasterCard PayPass MagStripe  
Visa payWave MSD  
Visa payWave qVSDC  
Discover Zip  
American Express ExpressPay  
Pass-through access to ISO 14443-4 and MiFare cards, for direct host terminal-based application access  
Secure SoftSAM protects contactless keys  
Hardware SAM optional

<http://vx-evolution.verifone.com/>

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