

# VX 820 DUET

## ALL IN ONE, TIMES TWO.

VeriFone's VX 820 DUET is the perfect combination – a stylish PIN pad along with a functional base to create a feature-rich countertop device. Together, merchants and consumers get everything they need in one device – on the advanced VX Evolution platform.



### DUAL DESIGN, DOUBLE THE EASE OF USE

- Dual-purpose design combines a countertop payment device with an ergonomic, programmable PIN pad
- Large, bright, blue backlit keypad is exceptionally user-friendly for both merchants and consumers
- Fits a large, crystal-clear, 3.5", color, touch display and intuitive card handling capabilities into a sleek device
- Base has compact footprint that securely cradles the PIN pad
- Built on the proven VeriX platform with more than eleven million devices sold and backward compatible with existing applications for the V<sup>x</sup> 810 DUET to protect your investment

### EXPANDED CAPABILITIES WITHIN EASY REACH

- Available with VeriFone's NFC software technology enabling full flexibility to manage multiple NFC mobile wallets, apps and programs. All apps are fully insulated and firewalled from each other and existing payment apps, ensuring complete security on payment transactions while adding wallets, value-add offers, coupons and loyalty support
- Increased processing speeds, from the 400 MHz ARM 11 processor, plus 160 MB of memory provide for an unbeatable range of applications
- Accepts all forms of payment – from credit and PIN-based debit to EMV smart card transactions

### RAISING THE BAR ON SECURITY AND RELIABILITY

- Built with durable components such as a smart card reader that takes 500,000 insertions and a keypad that withstands more than one million key presses
- VeriShield Total Protect eliminates usable data from merchant applications and networks by encrypting it from end to end

#### 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

240x320 pixel color TFT (QVGA) supports up to 26 lines x 26 characters  
8 soft-function keys  
4 screen-addressable keys via touch screen

#### 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

3x4 numeric keypad, plus screen-addressable keys can be simulated on touch screen

#### Peripheral Ports

USB host and RS-232 to support peripheral devices  
Telco and Ethernet ports to support communications

#### Printer

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

#### Modem

Standard 56 kbps modem Bell 103/212a, CCITT V.21/V.22/V.22bis/V.32/V.32bis (300/1200/2400/9600/14400/33.6/56 and HC FastConnect for 1200bps)

#### Protocols

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

#### Security

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

#### Physical

Length: 178mm (7.01in.); Width: 98mm (3.86in.); Height: 109mm (4.3in.); Weight: terminal, 735g (1.62lbs.)

Full shipping, 1800g (3.96lbs.)

#### Environmental

0° to 50° C (32° to 122° 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

#### 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/>