# 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. All on the proven VX platform.

**PCI SECURITY**

Premium
PCI PTS 3.X

### 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
- Includes a built-in, thermal printer conveniently tucked away – plus USB or serial to simplify peripheral support and dial or Ethernet for connection needs

### EXPANDED CAPABILITIES WITHIN EASY REACH

- Available with VeriFone's NFC software technology enabling full flexibility to manage multiple NFC mobile wallets, apps and programs.
- 400 MHz ARM 11 processor combined with 160 MB of memory provides increased processing speeds and ability to run an unbeatable range of applications
- Designed to support up to 500 MB of memory, offering almost limitless capacity for loyalty-building and value-added 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
- Provides end-to-end encryption with VeriShield Total Protect, secured by RSA, to maximize protection against fraud and misuse

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

**Memory**
160 MB (128 MB of Flash, 32 MB of SDRAM) standard, designed to support up to 500 MB
Optional micro SD Flash memory card

**Display**
240x320 pixel color TFT (QVGA) supports up to 26 lines x 26 characters

**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 Level 1 and 2 Type approved

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

**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**
SSL v3.0, 3DES encryption, Master/Session and DUKPT key management; VeriShield file authentication; PCI PTS 3.X 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 card, for direct host terminal based application access | Secure SoftSAM | Hardware SAM optional

**NFC Applications**
Support for ISO 18092

VeriFone®
THE WAY TO PAY™

**http://vx-evolution.verifone.com/**

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