

ALL IN ONE, TIMES TWO.

VX 820 DUET

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 cleverly combines a countertop payment device with an ergonomic, programmable PIN pad into one, easy-to-handle device
- Nothing could be simpler to use – large, bright, blue backlit keypad is exceptionally user-friendly for both merchants and consumers
- Fits a remarkably large, crystal-clear 3.5" color display and intuitive card handling capabilities into a sleek, highly attractive device
- Base has compact footprint that securely cradles the PIN pad while eliminating clutter
- Includes a built-in, thermal printer conveniently tucked away – plus USB or serial to simplify peripheral support and dial or Ethernet for connection needs
- Backward compatibility with V^x 810 DUET makes it familiar and comfortable to ease transition

Expanded Capabilities Within Easy Reach

- Increased processing speeds, from the 400 MHz ARM 11 processor, plus 160 MB of memory provide everything merchants need for an unbeatable range of applications
- Can support over 500 MB of memory, offering almost limitless capacity for loyalty-building, profit-producing, value-added applications
- Accepts all forms of payment – from credit and PIN-based debit to EMV smart card transactions
- Ready to go contactless? Optional, integrated contactless – including NFC support – is built in, so merchants can quickly capture new markets

Raising The Bar On Security And Reliability

- Taking security and reliability to new heights – VeriFone's VX Evolution redefines the meaning of state-of-the-art in security and reliability
- Fully meets PCI PED 2.0 standards to protect 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



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
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 14.4k bps modem supporting Bell 103/211A, CCITT
V.21/V.22/V.22bis/V.32/V.32bis (300/1200/2400/9600/14400 bps) and HC Fast Connect for 1200 bps

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 PED 2.0 approved

Physical
Length: 178 mm (7.01 in.)
Width: 98 mm (3.86 in.)
Height: 109 mm (4.3 in.)
Weight: terminal, 735 g (1.62 lbs.)
full shipping, 1800 g (3.96 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

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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03/10 45786 Rev B FS

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