

VPOS reader

The Nayax VPOS All-In-One Reader Solution for Vending Machine Cashless Environments.

The VPOS accepts Contact, Contactless and Magnetic Stripe payment methods.

The VPOS is the latest addition to the Nayax cashless reader family, supporting payment & loyalty programs while providing unsurpassed cost-to-performance results. The VPOS is compatible with major financial contactless programs such as EMV Contact payment schemes, MasterCard's PayPass™M/Chip, ExpressPay from American Express and Visa Contactless programs as well as supporting EMV with MasterCard's M/chip and Visa Wave qVSDC for contact and contactless.

Enhanced features offered by the VPOS allow for faster transactions and the ability to support multiple application & other proprietary programs. The VPOS is available with multiple encryption configurations to ensure the highest level of security for each transaction. It is optimized to read data from a variety of sources, including Contact smart Cards, Contactless credit cards and key fobs that comply with ISO 14443 type A or B. NFC, MIFARE & ISO 15693 are supported. The VPOS is equipped with a display screen easily configured to support multiple languages along with visible LEDs on both sides, offering quick transaction confirmations and providing excellent user experiences at the point of sale.

The VPOS fits on any vending machine or can be wall-mounted, taking as little counter space as possible. The VPOS is UL, CE and FCC compliant. Among its unique features for vending machine operations are voice instructions, remote logistic & support management and simple integration (plug and play) with most vending machine and payment environments.



The VPOS is available with multiple encryption configurations to ensure the highest level of security for each transaction. It is optimized to read data from a variety of sources, including Contact smart Cards, Contactless credit cards and key fobs that comply with ISO 14443 type A or B. NFC, MIFARE & ISO 15693 are supported. The VPOS is equipped with a display screen easily configured to support multiple languages along with visible LEDs on both sides, offering quick transaction confirmations and providing excellent user experiences at the point of sale.

The VPOS fits on any vending machine or can be wall-mounted, taking as little counter space as possible. The VPOS is UL, CE and FCC compliant. Among its unique features for vending machine operations are voice instructions, remote logistic & support management and simple integration (plug and play) with most vending machine and payment environments.

Compatible Payment Scheme

- MasterCard PayPass Mag Stripe
- MasterCard PayPass M/Chip (EMV)
- Visa PayWave MSD
- Visa PayWave qVSDC (EMV)
- American Express ExpressPay
- Discover Zip – in process
- MIFARE, Secured Mifare
- HID
- EMV Level 1 Contact card
- EMV Level 2 Contact
- EMV Level 1 Contactless

VPOS reader

Supports major financial Contact, Contactless and Magnetic Stripe programs:

Interface options to POS

- RS232 Communications interface
- In system programming of firmware of 512 KB flash memory via RS232 communication

Secure and Flexible Platform

- Support for multiple payment applications
- High security encryption system (AES/DES/RSA/RNG)
- On-board EMV SAM support

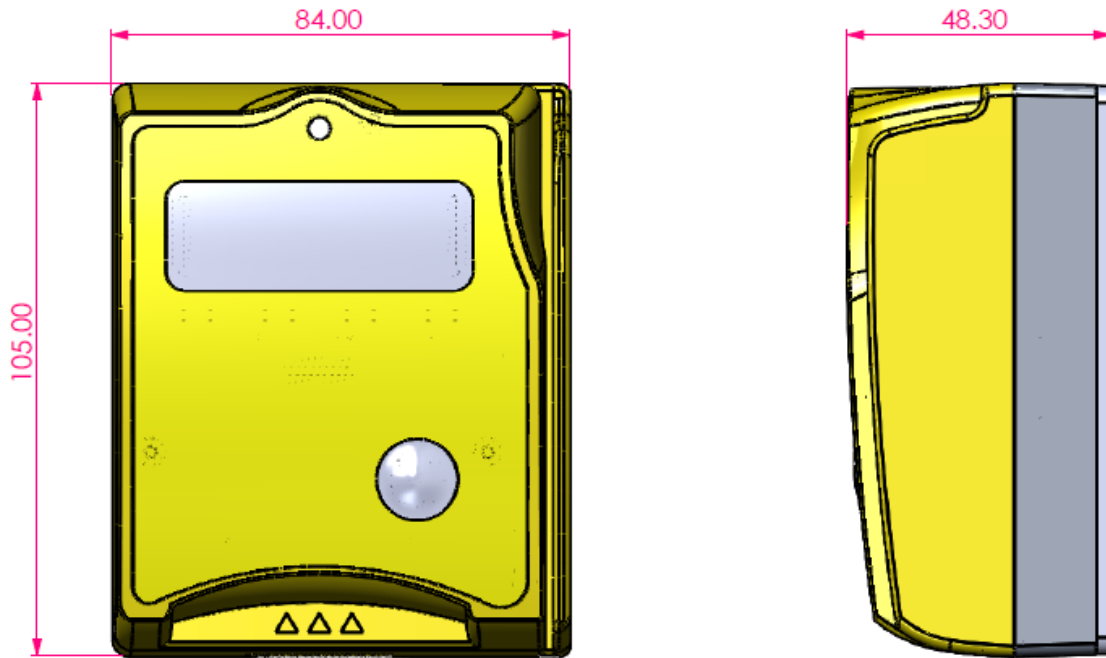
Standards:

- ISO 7816 Contact Smart Card compliant and EMVco approved for Contact Smart Cards payment applications
- ISO 14443 Type A and Type B Compliant and EMVco approval for Contactless Payment Implementation
- NFC
- MIFARE
- ISO 15693

General Features

- Flexible, software configurable microcomputer-based design
- 13.56 MHz transmission frequency conforming to ISO 14443 standard
- Four programmable indicator LEDs and buzzer
- Display screen with two character lines programmable in multiple languages
- H – 4.13" (105 mm) x W - 3.31" (84 mm) x D – 1.90" (48.3 mm)

VPOS reader



Mechanical Dimensions

- **Physical Dimensions**
 - H – 4.13 (105mm)
 - W – 3.31 (84mm)
 - D – 1.9 (48.3mm)
- **Weight – 230 gr.**

Environmental

- **Temperature:**
 - Storage: -25 °C to 85 °C
- **Humidity 0% – 95%**
- **Regulatory Compliance**
 - CE
 - UL
 - FCC
- **Secured Applications**
 - Secured applications with SAM option

VPOS reader

General Features

▪ RF Interface:

- Bi-directional RF interface between reader and the passive contactless smart cards
- Carrier Frequency: 13.56 MHz
- RF Output: 450 mWatt
- ISO 14443 Type A & B
- Protocol: T=CL
- ISO 15693 Support
- MIFARE
- NFC
- HID iClass cards supported

▪ Smart Card

- ISO 7816 Compliant
- Contact EMV Level 1 certified
- Contact EMV Level 2 certified
- EMV SAM equipped
- Protocols Supported: T=0 and T=1
- Baud Rate: 9600, up to 38,400 – optional
- Support of 5 & 3 Volts smart cards
- Supports Smart card power consumption up to 60 mAmp
- Contact Smart Card Acceptor lifetime: >10,000 insertions

▪ Magnetic Stripe Card Decoder

- ISO 7811
- Track 1 bit density of 210 bit/Inch
- Track 2 bit density of 75 bit/Inch
- Reads High and Low Coercivity cards
- Magnetic Head Life time: Approx. 300,000 passes

▪ SAM Interface

- EMV Compliant
- HID compliant

▪ Communications links

- RS-232 up to 115,200 kbps
- 8 bit, Even parity, 1 stop bit
- Optional additional RS-232 port

▪ Indicators

- 2 X 16 Characters LCD Display multi-language support
- 4 LEDs
- Buzzer
- Speaker: Improved access by Multilanguage local voice messaging

▪ Buttons

- Transaction Cancel button

▪ Microprocessor

- ARM Cortex 3, 32 Bit processor
- Clock: 72 MHz up to 120 MHz
- FLASH: 512 KByte up to 1 MByte
- RAM: 64 KByte up to 128 KByte
- Lockup protected: – Watch Dog Timer
- Secure remote Firmware update
- Support of AES, 3DES, SHA1

▪ Power Supply:

- 8VDC – 16 VDC
- Max power consumption: Inrush: <2 Amp. Steady: <0.5 Amp. @ 9 Volt

▪ Security

- Support and use of DES, 3DES, AES, RSA, SHA1 algorithms.
- Support and use of Secure access for MIFARE and HID contactless cards.