

VPOS Reader

Nayax VPOS All-In-One reader solution created for the Vending Machine cashless environment operation sale of goods.

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

Nayax VPOS is the latest addition to Nayax' cashless readers family supporting payment & loyalty programs and providing unsurpassed cost-to-performance results. The VPOS supports major financial contactless programs, such as EMV Contact payment schemes, MasterCard's PayPass™M/Chip

ExpressPay from American Express and Visa Contactless programs, and also supporting EMV with MasterCard's M/chip and Visa Wave qVSDC for contact and contactless.

The enhanced features offered by the VPOS allow for faster transactions and the ability to support multiple application programs and other proprietary programs.

The VPOS is available with multiple encryption configurations to ensure the highest level of security in each transaction. Nayax' VPOS 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 and visible LEDs on both sides of the reader, offering a quick transaction confirmation, providing an excellent user experience at the point of sale.

The VPOS was built to fit on any vending machine or can be wall-mounted, taking as little counter space as possible. The VPOS is UL, CE and FCC compliant. Unique features for the vending machine operation like, voice instructions and integration with remote management of logistics and support of the vending machines. Plug and Play to most Vending machine and payment environments



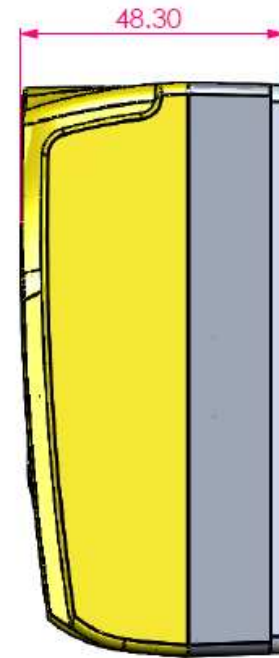
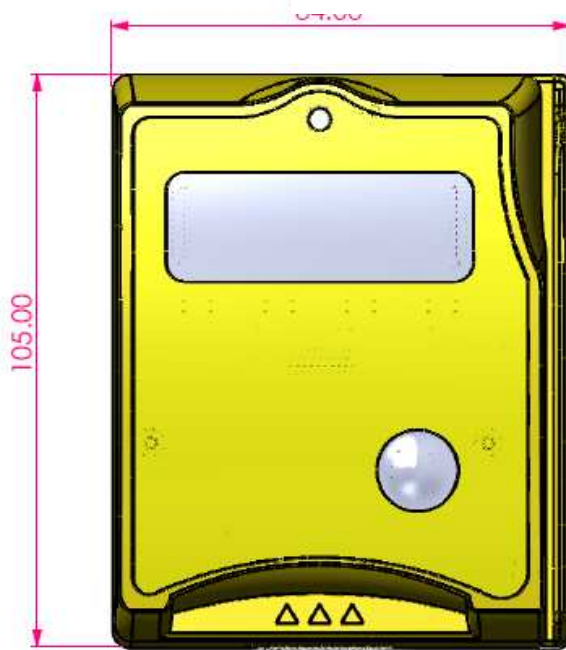
Payment Scheme and Certification

- MasterCard PayPass Mag Stripe
- MasterCard PayPass M/Chip (EMV)
- Visa PayWave MSD
- Visa PayWave qVSDC (EMV) - in process Approved
- American Express ExpressPay - in process
- Discover Zip - in process

- MIFARE, Secured Mifare
- HID
- EMV Level 1 Contact card - Approved
- EMV Level 2 Contact -Approved
- EMV Level 1 Contactless - Approval in process

NAYAXvend

VPOS Reader



Mechanical Dimensions

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

Environmental

- **Temperature:** 5 C
 - o Storage: -25 C to 85 C
- **Humidity** 0% – 95%
- **Regulatory Compliance**
 - o CE (In process)
 - o UL (In process)
 - o FCC (In process)
- **Power Supply:**
 - o 8VDC – 16 VDC
 - o Max power consumption:
Inrush: <2 Amp.
Steady: <0.5 Amp. @ 9 Volt

- **Communications links**
 - o RS-232 up to 115,200 kbps
 - o Optional additional RS-232 port
- **Indicators**
 - o 2 X 16 Characters LCD Display
multi-language support
 - o 4 LEDs
 - o Buzzer
 - o Speaker: Improved access by
Multilanguage local voice messaging
- **Buttons**
 - o **Transaction Cancel button**
- **Microprocessor**
 - o ARM Cortex 3, 32 Bit processor
 - o Clock: 72 MHz up to 120 MHz
 - o FLASH: 512 KByte up to 1 MByte
 - o RAM: 64 KByte up to 128 KByte
 - o Lockup protected: – Watch Dog Timer
 - o Secure remote Firmware update

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Reader's General Features

▪ RF Interface:

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

▪ Smart Card

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

▪ Magnetic Stripe Card Decoder

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

▪ Security

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

▪ SAM Interface

- o EMV Compliant
- o HID compliant
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