

TICKET EZ 928

TICKET VENDING MACHINE





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Ticket EZ 928 ticket vending machine (TVM) incorporates all the latest innovations and technologies. During development our main concerns were the eco-efficiency and low operating costs. In this way we have created a system with value storage capacity, safety and maintenance requirements unmatched in the market.

Simple user interface

With its customizable interactive user interface the ticketing application is easy to navigate. The 17" high brightness, anti-glare display and touch sensor provide a larger surface for displaying the most important information.

High capacity coin recycling system

Unique high-capacity coin-recycling containers managing up to 6 coin denominations, suitable for containing minimum 500 coins per denomination. In case of the removal of the coin-recycling tanks the latches close automatically. This massive recycling capacity assures significant cost savings regarding the cash logistics. The level of the coins in the container is controlled by a coin management software system.

Ticket printing, Product delivery

Two high capacity printers can be installed into the Ticket EZ 928 with triple feeders resulting capability of issuing altogether six different products (paper or smart paper based tickets) without interaction.

Cash payment with up to 4 banknote denominations recycling

Deposit in a fast and secure manner. Recycling up to 4 banknote denominations together with the coin recycling system dramatically reduces the cash logistics costs. Implemented protection against abuse arising due to payment slot blocking.

Uninterruptible power supply

The ticket vending machine system is equipped with uniquely high capacity uninterruptible power supply. After the interruption of power supply smooth operation is ensured for a minimum of 10 minutes. In the standby mode automatic remote monitoring system remains in connection up to 48 hours whilst the system monitoring is fully functional. Optionally the standby time can be increased to 72 hours.

Energy efficient design

The interior of the machine is insulated so the automatic built-in heater-cooler uses the least amount of energy to maintain the required internal condition with outside temperature range from -25 °C to + 50 °C.

Handicap access

The automatic controls are in accordance with the European Union 2008/164/EC Recommendation of 70 cm to 120 cm ensuring full accessibility for disabled persons. In addition to this voice guidance, Braille sign, screen magnifying application and a built-loop amplifier provide further assistance for disabled users.

Safety

In contrast to the material thickness commonly used for Ticket vending machines the Ticket EZ 928 housing and doors are made of 3mm thick steel plate. The multi-stage operator identification treatment, access control, separate lockable modules, multi-point locking doors, breakage proof mechanical lock and a service processor guarantee outstanding security. The glass surfaces in front of the monitors are vandal safe P5A standard.

Special options

Multimedia presentation, information and advertising space

During ticket sales the user display can run multimedia contents. Uniquely, the machine can be equipped with a traveler information display. Its main features are 1920 x 710 px resolution, size 29,3" and brightness: 1000 nits.

The display can show both travel information and multimedia content or an online communication with the help desk can also be provided. The TVM can be alternatively furnished with easily exchangeable decorative plates or laminated paper sheets providing up-to-date information.

E-ticket

The Ticket EZ 928 can be equipped with a plastic card dispenser (issuing up to 500 cards). In addition, the built-in thermal printer can encode and print up to 250 g/m² paper cards with RFID chip (smart paper).

Special safety requirements concerning the ticket

The applied printer within the ticket printing options allows recording of the number of the ticket and the real time image tracking.

Service processor

Our in house developed service processor, an independent unit from the control computer with detached data connection is in a continuous connection to the monitoring server. The built-in sensors perform extensive system monitoring, security and remote management tasks.

Full software support, continuous software development

Our development team is continuously working according to the customers and users feedback in order to meet the high expectations of the TVM market. Both of our destination- and product-based ticketing softwares can be customized according to user requirements.



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Physical properties

- Height: 1955 mm, Width: 1000 mm
- Depth: 500 mm, Weight: 280 kg
- The door and the housing are made of 3 mm-thick powder coated steel. The housing is vandal proof and covered with anti-graffiti paint.
- The system ensures easy handling and visibility of control surfaces with user friendly height of 70-120 cm.

Electric supply

- Main voltage 230V 50Hz, 150W (650W during heating)

Weather resistance

- The machine is designed for outdoor use in accordance with the IP54 standard

Operator identification

- Multi-step user security level (single-use code, proxy card, alarm code) during open doors and in the supervisory system.

Lighting

- The system has a local illumination as well as lighted head unit. The ticket issuing tray is also illuminated.
- The systems are vandal-proof, with self-adaptive ambient lighting and energy-efficient exterior lighting.

Audio

- Automated audio and visual help and voice announcement assistance for visually impaired users.

Value withdraw

- Ergonomic tray. During ticket printing and change return light signal warning with adjustable length of light emission (event driven). Sound warning with adjustable length of sound (event driven). Forced withdrawal of ticket paper during printing is impossible.

Control computer

- Low consumption industrial PC with high speed SSD
- Intel Atom Quad Core 2,1 Ghz Processor

Display

- 17" TFT display, 1280 x 1024 resolution, min. 1000 cd/m² brightness, automatically adjustable independently from environmental light conditions..

Touch sensor

- 17" projected capacitive, IR and UV protected, glare free touch screen with 10mm thick safety glass.

Sound

- 5 W RMS speaker.

Camera

- Possible automatic inside and outside video recordings.

Printer

- On demand 2 high capacity printers, replacing each other
- if needed.
- 200 mm/sec printing
- 1D/2D/QR bar code printing
- 3 large size paper rolls for each printer (2x400 mm and 1x200 mm, or 3x300 mm)
- Use of different types of thermal paper even at once
- Optional built-in bar code reader
 - As a safety feature printed ticket image recording
 - Guaranteed for an amount of 2 million cuts or 150 km paper

Communication

- LAN. Optional: 3G, UMTS, EDGE, GPRS.

POS terminal

- Vandal safe card reader and PIN pad. Magnetic, chip and NFC card handling.
- Online/Offline operation
- Contactless chip card printing and reading system. Online and offline terminal. Built in PIN pad.

UPS

- Ensuring the completion of the transaction (minimum 10 minutes) and further 72 hours operation of all control and safety systems.

Banknote handling

- The banknote control unit accepts all denominations of the designated currency.
- Banknote recycling cassettes capable of storing up to 30+60 pcs of banknotes/cassette and handling up to 4 denomination.
- Optional 300 pcs banknote capacity loader cassette
- At least 1400 pcs new banknote lockable storing cassette
- Banknote receiver unit equipped with escrow container (15 banknotes) and bundled payment option.

Coin Handling

- The coin control unit accepts all denominations of the designated currency.
- 6 coin recycling container with minimum 500 coin/denomination capacity (depending on the coin size)
- Electronically controlled coin insertion slot with jamming prevention.
- Upper - lower loading level sensor
- Lockable, changeable coin containers
- Coin box capacity minimum 7 litres

Hardware control

- The device is sending through network the current information status to the central control HQ

Special options

Advertising and travel information

- Interchangeable front panel of minimum 650 x 180 mm as an advertising space
- The automat can be equipped with a 698x196 mm, 28", 1366x254 pixel resolution, 1000 unit light power LCD display. The display can run both travel information and multimedia content.
- Printed decor panels can be replaced on the door at will.

Service processor

- The automat and its applications monitoring and status reports forwarding
- Executing security and alarm assignments
- Continuous connection with the central station in the event of a power failure
- Continuous data connection to the monitoring centre is running smoothly regardless of the machine control computer

e-Ticketing

- Smart paper option. Thermal paper based RFID ticket) writing/reading, Mifare and I code; RFID ISO 14443 A/B/B'; ISO 14444, Felica, ISO18092 (NFC), Mifare; RFID UHF EPC Gen2; ETSI EN 302 208

Travel card dispenser

- The TVM can be equipped with plastic card dispenser. Cassette capacity is minimum 500 pcs.

Software option

- Ticketing software
- Ticketing background system
- Remote management software client and server-side applications
- Software development kit (SDK)
- System integration of existing ticketing systems