

SMALL & BEAUTIFUL

ON-BOARD VALIDATOR AND
TICKET VENDING MACHINE



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Small & Beautiful (S&B) on-board TVM is a compact solution for urban vehicles, small but powerful machine for providing fare products for passengers. It is equipped with a contactless POS terminal. The housing was designed especially for on-board use. The back is made of steel with round edges while the front is made of vandal-safe plastic material commonly used on vehicles as cover. The inside part is strengthened with steel in order to provide vandal-proof operation.

Simple user interface

With its customizable interactive user interface the ticketing application is easy to navigate. The 10" high brightness, anti-glare display and touch sensor provide a larger surface for displaying the most important information.

Ticket printing, product delivery

The S&B is equipped with a reliable, heavy duty, high-speed printer.

Uninterruptible power supply and voltage control

The S&B is equipped with a high capacity uninterruptible power supply. After the interruption of power supply, smooth operation is ensured for a minimum of 5 minutes. In the standby mode automatic remote monitoring system remains in connection up to 24 hours whilst the system monitoring is fully functional. Since the device is to be installed on board, it is prepared to operate in a wide range of DC voltage, as the available voltage usually varies on vehicles. The S&B operates properly between 12V and 32V DC.

Easy installation

The small form comes with a light-weight, so it is easy to install the S&B on handrails.

Special options

Multimedia presentation, information and advertising space

Between transactions the user display can run multimedia contents.

E-ticket and validation

The POS terminal can be equipped with a software to manage e-Ticket operations or provide validator functionality.

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. Our product-based ticketing software can be customized according to user requirements.

Physical properties

- Height: 400 mm, Width: 170 mm
- Depth: 160 mm, Weight: 5 kg

Electric supply

- Main voltage 12V-32V DC

Weather resistance

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

Control computer

- Different types of low consumption industrial PC with high speed SSD, equipped with Intel Atom Quad Core, Intel I3 Processor

Display

- 10" TFT display, 1280x1024 resolution, min. 600 cd/m² brightness, automatically adjustable independently from environmental light conditions.

Touch sensor

- 10" projected capacitive, IR and UV protected, glare free touch screen with 4 mm thick safety glass.

Printer

- 1 high speed, heavy duty printer
- 200 mm/sec printing
- Guaranteed for an amount of 2 million cuts or 150 km paper

Communication

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

POS terminal

- Vandal-safe reader for NFC card handling
- Online operation

UPS

- Ensuring the completion of the transaction (minimum 5 minutes) and further 24 hours operation of all control and safety systems.

Hardware control

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

Special options

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

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