



## Traverze by Transway TVM

The Traverze TVM is a ticket vending machine that can issue travel cards or paper tickets, as well as reload travel cards. Travelers can pay with cash, coins, or credit cards. They can even prepay over the internet and simply come to load their travel card.

The Traverze TVM can also be used as a validator and can validate trips from previously purchased and loaded cards. The Traverze TVM is capable of storing and offering a wide array of ticketing plans, or contracts, to the passengers.

### AT A GLANCE

- ✓ Ruggedized and sturdy machine
- ✓ Withstands all sorts of weather ,easily readable in bright sunlight
- ✓ Cash, credit or on-line payment
- ✓ Paper tickets or smart travel cards
- ✓ Choice of regularly scheduled or on demand updates
- ✓ Flexible - support for multiple transit companies, different tariff structures, and multiple contracts, or travel packages, on a single card
- ✓ Holds up to 500 blank smart travel cards
- ✓ Rugged and durable - contains protected panel connections and shielded metal fixtures designed to prevent unauthorized detachment and removal
- ✓ Future-proof – Modular architecture means flexible configurations, easy maintenance and upgrades

### HOW IT WORKS

The passenger chooses what service they wish to receive from the Traverze TVM. They may want to simply purchase a paper ticket, add credit to an existing smart travel card, or purchase a new smart travel card. The passenger then has the option to choose their preferred payment method – cash or credit card. The passenger is guided by a logical step by step menu throughout the process.

In the case that the passenger decides to use cash, they can pay with bills, coins, or a combination, and they receive their change in coins. In the case that the customer chooses to pay with a credit card, the system not only checks that the credit card is valid, but also makes certain that there is credit to cover the payment, thus avoiding potential misuse of the credit card by the passenger.

In terms of managing the Traverze TVM, a courier fills and empties the machine manually, generally every 3-4 days. The back office system knows when the courier needs to service the machine, and informs him when that is necessary. This adds to the efficiency of your entire network and avoids unnecessary trips to the Traverze TVM by your employees. Like a driver, the courier also goes to the Cashier Station in order to drop off the money, as well as to pick up cash and coins to fill the machine so that change can be given to the passengers. The cash and coins are kept in separate compartments



Platform



Passenger Operated



TapNGo



Future-Proof



New

## TECHNICAL DATA

Display monitor	17", viewing format 3:4, daylight and direct sunlight
Touch interface	Based on capacitive touch interface, behind glass thickness 6 mm to prevent vandalism
SAM slots	2
Memory Array	2GB DDR2 667MHz, 32GB HDD, local dual HDD RAID1
Smart Card reader / writer	One stapled to entrance of the automatic ticket issuing facility Second stapled to entrance of smart card validating and charging Card reading distance - 4 cm Supports the following standards: ISO-14443, A & B, Calypso®, Mifare®, DESfire ®
Acoustic Indicators	Two 2W speakers
Communication	2 x LAN, 6 x USB, 4 x RS232C/RS485
Location service	GPS receiver SIRF IV with 48 tracking channels, 15s fast location acquisition (Optional)
Extra communication options	RS232, RS485, CANbus 2.0, Bluetooth 2.1, WiFi 802.11b/g, HDMI 1.2
Communication method to central office	On board cellular modem (2G to 3.5G option), 2xLAN, <u>Secure</u> Disk On Key/Data Communications Unit (DCU) unit for backup purposes
Thermal Printer	Paper size: 80 mm, print size: 60 characters (character size 10x24) Paper roll length: 400 meters
Banknotes validator	Banknotes can be inserted in four different directions Accuracy in identifying for the first income: 96%
Coins validator device	Programmable, get up to 32 different coins Coins sizes: 16 mm – 32 mm Coin thickness: 1.2 mm – 3.3 mm
New Smart card ejector	Number of blank smart cards per cartridge – 500 Contains an independent smart card reader / writer
Credit card reader	Magnetic and chip card reader ,EMV and PCIe
Electrical system	Nominal voltage: 110-230 VAC 50Hz , 0.4A or 24VDC/5A, 92W Maximum current consumption: 342W (while charging batteries) Protection: Automatic fuse inside the device, an internal electronic fuse, over-current protection, over/lower voltage Protection ESD: 5kV, EN61000-4-2 EMI protection for supply lines: EN50081/2
Temperature	Operation: (-10°C) - (+65°C), Storage: (-20°C) - (+75°C)
Humidity and environmental conditions	80% at 30°C non condensation IP64
Dimensions	(W)90, (H)180, (D)45 mm