



by Transway

Roadzter TIM 7020EX

The Roadzter TIM 7020EX is Transway's newest and most recent Ticket Issuing Machine, or Driver's Console. It is designed for creating paper tickets and for reading smart card tickets on buses, trams, trolleys and other forms of mass transportation. The Roadzter TIM 7020EX is more than just a driver's console; It is actually a bus communication platform that supports WiFi, BT, Cellular and LAN technologies. The Roadzter TIM 7020EX ticket issuing machine (driver's console) includes a touch screen, keyboard, printer, and smart card reader.

AT A GLANCE

- ✓ Physically designed as a full-fledged point of sale on the vehicle
- ✓ Ergonomic User Interface
- ✓ Separate areas for driver and passenger
- ✓ Sunlight readable
- ✓ Perfect combination of touch screen and hard keys
- ✓ Built in camera with flash for 2D barcodes
- ✓ Super large paper compartment fits 2 full rolls
- ✓ Internal GPS - seamless pricing models
- ✓ Strong processing capabilities
- ✓ Android OS - Open and ubiquitous system for easy integration and add-ons
- ✓ Future-proof - Modular architecture means flexible

configurations, easy maintenance and upgrades)

HOW IT WORKS

The driver inserts his Data Communication Unit (DCU), or his contactless card, to initiate and use the Roadzter, and the electronic wallet inside. The driver also needs to input his password while the driver's module or card is inside, and thus initiates the session.

The driver proceeds by using the touch screen to choose his route, prints out a report that he has opened his route and can use the Roadzter for selling tickets, validating smart travel cards or QR tickets, adding credit and topping off smart travel cards. All ticket sales and smart card credit purchases are performed with cash. The machine is designed such that the driver and passenger have separate areas. More specifically, the driver can continue using the machine while passengers are validating cards, and neither will bother the other. If prompted by the dispatcher system via the FMS, the driver can also change to another bus line during the shift.

By taking advantage of the cellular communications capabilities, information is transferred to and from the machine from the back office regularly, and at fixed times. This information includes uses of the smart travel card, driver's details, information on new routes, updated routes, as well as loading credit to the driver's mobile wallet. These communications are also used to update software and provide lists of rejected cards or to pre load them.



Android
4.2



On-
Board



Driver
Operated



TapNGo



Future-
Proof



New

TECHNICAL DATA

Display monitor	CL - 7" Color display, 262K colors, 480 x 800, backlight, LED nits 700. LCD for passengers with backlight, 2 lines, 16 characters
Operational Keys	Resilient backlight keys for intensive work (in lieu of the touch screen) and for functional use. Located on the sides and below the Provides for easy operation by the driver. Includes passenger operated keys
Printer	Fast thermal printer at 200 mm per second. 60 mm width. Fast paper loading and paper cutter, paper input sensor, paper level sensor and paper jam sensor
Internal Memory	4Gb (upgrade to 16Gb)
Contactless card reader	Supports the following standards: ISO-14443 A & B Calypso®, Mifare®, DESfire®, NFS. In addition to the option of card placement and reading near the sensor, the card reader has a slot option, which allows for inserting a card if necessary. This is usually used for longer transactions, such as adding credit to the smart card. This prevents the card from falling to the ground during the transaction
Acoustic Indicators	Two 2W speakers + MIC (aimed towards the driver and the passenger)
Illumination Indicators	The unit contains number of different lighting elements
Location service	On board GPS receiver SIRF IV with 48 tracking channels, 15s fast location acquisition
Extra communication options	3xRS232/RS485, HDMI 1.2, CANbus2.0 ,USB otg ,Optional: BT4.0
Communication method to central office	On board cellular modem (2G to 3.5G option), <u>Secure</u> Disk On Key/Data Communications Unit (DCU) unit for backup purposes or calypso smart card
Cellular Communication	internal cellular modem
Mounting connections panel	Metal, protected lock that protects the fasted connection
Internal Battery	Optional: Up to 40 minutes of work, used to maintain the integrity of transactions
Temperature	Operation: -20°C to +70°C (Excluding paper); Storage: -40°C to +85°C
Humidity	95% at 38° non-condensing
Shock and Vibrations	IEC-721-2-5M3; Military Standard MIL-STD-810
EMC	Full Compliance: CE IEC 61000-4-2,4,5
Protection from dust & water	IP 54
Materials	Reinforced plastic & metal
Dimensions	(W)200, (H)200, (D)180 mm
SAM slots	4
OS and CPU	Android, IMX6 Freescale 4 cores 1.2GHz
Operational Voltage	9.5 – 36 volts (±10%), Surge and reverse polarity protection