Touch Screen Network Terminal

Display screen with selection controls

The Tolltex Touch Screen Network Terminal provides the same touch interface for toll collection as the Serial Touch Screen. However, the device communicates with the lane controller via a 100BaseT TCP/IP Local Area Network (LAN) rather than via a serial RS232/RS422 link. The unit also includes a 333MHz processor that supports a magnetic card reader, bar code reader, and receipt printer attached directly to the terminal. The result is less cabling and improved performance.

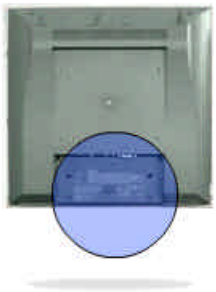
The device is based on the latest in touch terminal technology recently developed for "Kiosk" applications such as E-Ticket stations used to issue airline tickets at airports. Since the device was designed for use by the public, it is very rugged and therefore able to stand up to use in toll system applications.

The touch terminal offers flexibility in that the application can change according to the client's needs. Additionally, since it uses touch targets displayed on the screen, there is no need to have a keyboard on the toll booth counter. The image here shows a front view of the touch terminal. A proximity sensor on the front automatically activates the unit from its screen saver mode when the collector stands in front of it.

The image shown here is an angled view of the touch terminal. Its compact design needs very little space on the tollbooth counter. The unit measures 310mm (W) x 310mm (H) x 64.5mm (D) and has an adjustable mounting base that allows it to set on the toll booth counter.

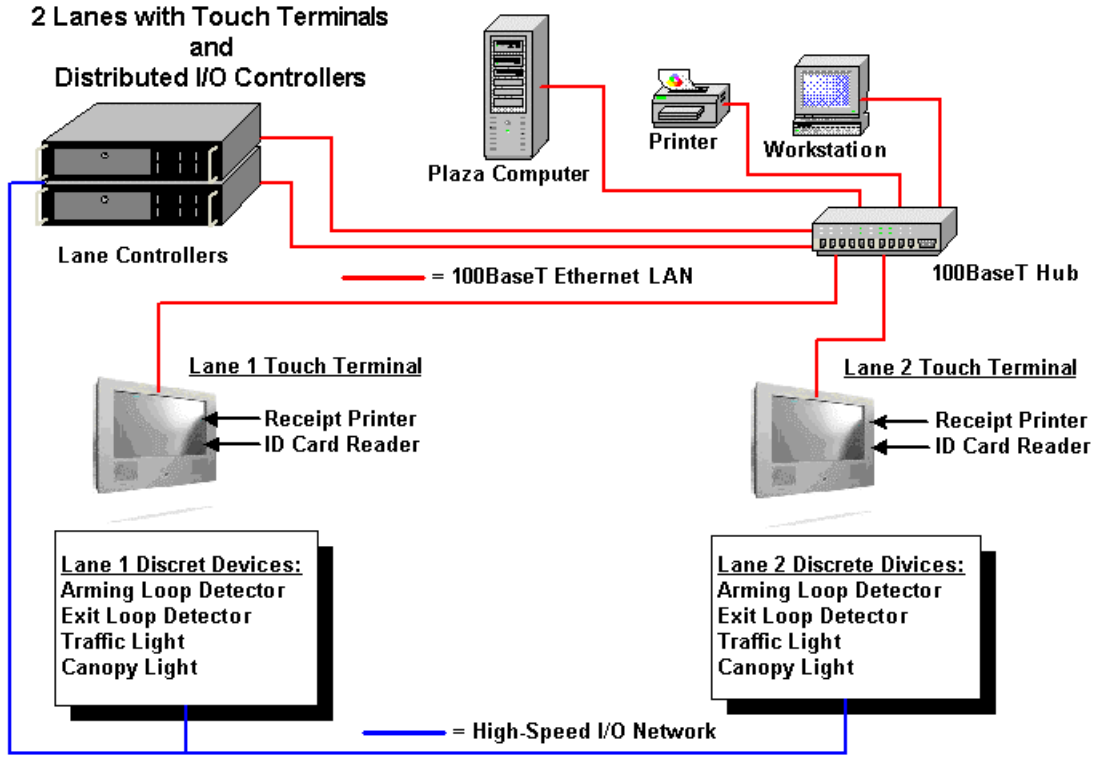
The color display screen size is 12.1-inch and it operates a 800X600 (SVA) and can display up to 65,536 colors.

Weight is approximately 8.5 lbs.



This view shows the rear side with the location of the connections highlighted in a blue circle. The terminal connects to the lane controller through a hub via a 100BasT Ethernet link based on standard Category 5 cable. A receipt printer, the collector's ID card reader, and a bar code reader also connect to the rear side of the touch terminal. This means costs will be saved by eliminating the number of cables that will need to be installed from each tollbooth to the lane controller located in the plaza building.

The image below shows two lanes based on the Tolltex Distributed I/O Lane controllers and Network Touch Terminals. Note how the cabling from the plaza building to each lane is simplified. The blue lines indicate the high-speed distributed I/O network and the red lines indicate the 100BaseT network. The receipt printers and card readers connect to the touch terminal.



Managing Software

The unit is designed to have its internal device-related software and the toll systems application software loaded across the Local Area Network (LAN). This provides for central management of the version of software in operation. When the unit is powered on, it automatically checks for new versions and downloads them across the LAN.