

## LANE CONTROL SYSTEM

### BLUE BOX LANE CONTROLLER

Casetta's Lane Control System for Electronic Toll Collection (ETC) operations is by far the most non-proprietary system in the market. Our Lane Control System consists of our BlueBox lane controller and lane control software. Casetta leverages open-architecture technology, where possible, in our lane hardware and software design and development.

### HARDWARE SPECIFICATIONS

As the central processing unit for all in-lane operations, the BlueBox Lane Controller is designed to be rugged, durable and easy to maintain and is equipped with all necessary cooling and heating elements to withstand harsh environments.

- Industrial PC assembled using off-the-shelf components.
- Rugged and Durable for harsh environments.
- Ease of Maintenance - One enclosure panel is equipped with thumbscrews for quick and easy access to the components during repair and servicing.
- Scalable – Supports up to four (4) PC104 boards.
- Also available in rack-mount.

### LANE CONTROL SOFTWARE

The Lane Control Software running on the Lane Controller is capable of controlling every lane type, regardless of configuration. Utilizing LAN/WAN real-time data communications with the Plaza and Central computers, the Lane Control System monitors and controls all peripheral devices and subsystems.

The Lane Control System can be pre-configured to support peripherals, including:

- ETC Indicators
- Receipt Printers
- Patron Fare Display
- Treadles
- Loop Detectors
- VES Equipment
- Violation Lights
- Violation Bells
- ACMs (Automatic Coin Machines)
- POS Terminals
- Island Traffic Lights



- 1.2 GHz Intel PIII Processor
- 256MB Memory
- 30GB Notebook Disk Drive
- (2) 10/100Base-T Network Connections
- (8) RS232 Serial Ports with External Surge Protection
- 1 LPT Parallel Port
- IDE Controller
- D I/O Controller
- FDD Controller
- (2) USB Ports
- Keyboard/Mouse Ports
- Box Fan
- 110-Watt Power Supply

All transaction data collected at the lane (lane ID, collector ID, vehicle class entered by the collector, Vehicle class determined by the Automatic Vehicle Classification (AVC), total amount due, toll amount paid, date/time etc.) is sent to the Plaza computer, where the data is stored in an Oracle relational database for collector performance monitoring, traffic statistics, revenue auditing and reconciliation reporting.

Should communication between the Lane Control System and Plaza computer be interrupted, the Lane Control System will function without interruption or intervention of any kind. During periods of stand-alone operation, a data will be stored locally on the Lane Controller for at least 72 hours.

#### Lane Control Software Features

- Linux Operating System

- True multithreaded, real-time operations

- Standard platforms and interfaces

- Fast, efficient and accurate processing

- Pre-configured to support most in-lane peripherals

- Configurable using a simple GUI interface on any Java web browser

- Customizable for virtually any lane geometry and framing algorithm in days, using either C++ or Java.

- Allows any user on the network to connect to the Lane Controller and monitor lane events graphically in real-time.

- Allow the system operating rules to be changed while the system is operating, without requiring shutdown of the application or recompilation.

- Proven reliable performance – the system can run months without being reset.

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