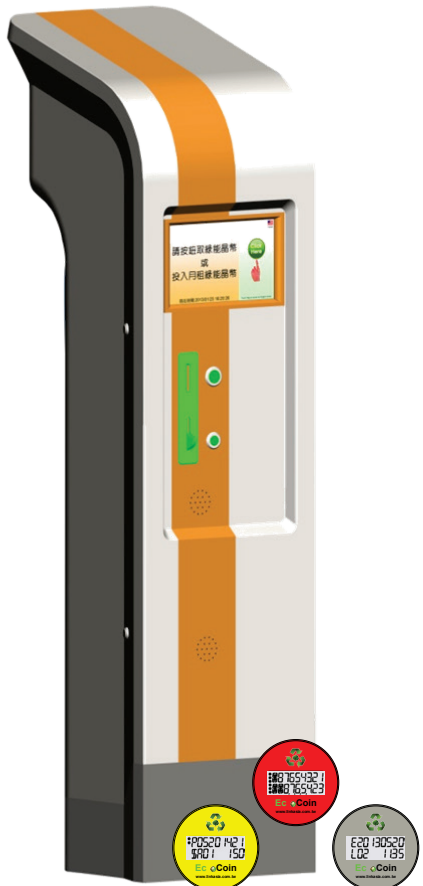


Technology of the future

EcoCoin Entry Terminal



Feature and Benefits

- Eliminates on-going ticket costs for the life of green system
- No battery, Electronic Paper Display with legible entry data as the paper ticket for transient, monthly and value card usage
- Contactless technology no wearing, low maintenance costs
- Complies ISO/IEC 14443 A standard Mifare, write endurance 100,000 cycles, data format is compatible to 3M SST mag stripe
- One US dollar, large Eisenhower coin size for recognizable with other cash coinage, no miss insert to the inlet of coin acceptor
- Retract capabilities for patron backout without EcoCoin
- 10.1" color LCD capacitive touch screen with resolution of 1280 x 800 for more attractive operation message and advertisement
- Rust-resistant full aluminum welded construction
- Support up to four merchant validations with counting mark

Options:

- Monthly and ValueCard System

EcoCoin-Technology of Future

The leading technology of **EcoCoin** is based on Mifare portfolio IC chip embedded in a plastic carrier and in a form of coin. It has furnished a display of electronic paper with two lines and nine characters each, but no battery required. So EcoCoin is never in before be able to show the encoded relevant information and be legible as the printed conventional paper ticket. The EcoCoin complies with the international standard of ISO/IEC 14443A, Mifare, for the contactless and comprehensive parking solutions, via an integrated read write module, the data content of EcoCoin is read and new data are written on it without touching it.

Versatility for Parking

The **EcoCoin** system is designed to accommodate many different parking applications and configurations. At the entry terminal, the transient patron receives a coin by pushing a button, upon which all the information with concerns to the arrival of vehicle at entry are encoded and legibly displayed as a conventional ticket, but no negatively affected by high humidity, heat, rain and dirt.

Customer could either touch it on 10.1 inch color LCD capacitive touch screen which deliver service friendly performance. The entry terminal will keep up to 1100 pieces of EcoCoin in stock for the less requisite of replenishment. Monthly parkers and other value card parking customers use an EcoCoin, which is carry the same chip as the transient one, but it will be renewal and shown with its entry and exit time date, also in out status with expiring date for the criteria of verification to the access control and anti-passback.

Recall Capabilities

Occasionally, clients may trigger the **EcoCoin** Entry Terminal and back out, leaving a coin in the chute. On other occasions, an EcoCoin is issued and the driver backs out to use it illegally. System has the capability of recalling either by retracting and depositing the coin into a pull out self locking bin, or if on-line, by flagging an illegal to the coin through detector and directional logic for future action.

Friendly to the Eco Environment

EcoCoin eliminates on-going ticket costs for the life of system, as it could offer more than 100,000 write endurance cycles, the plastic carrier with water proof capacity resistant against shock, mechanical stress, provide a green warranty to environmental influences and interferences, especially the reusable EcoCoin is fully compatible to the 3M SST magnetic stripe system for short-term, long-term parker and value decrement applications, but with plain technique and low operating maintenance costs, high operating security due to the embedded three pass authentication and encrypted data with key hierarchy.

The Best of Both Worlds

The **EcoCoin** system can be configured and reports can be pulled from ScanNet, the facility management software and its SQL database. But if the communication network is unavailable, all functionality and configuration can be managed internally, keeping your system flowing and control to the revenues intact.



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EcoCoin Entry Terminal Specifications

1. Purpose

EcoCoin Entry Terminal shall be a dispensing, reading, and verification device of EcoCoin. As a dispenser device, it shall dispense a Mifare portfolio IC chip embedded in a plastic carrier and in a form of 39 mm size coin, with legible entry time, date and lane number to the incoming parkers, which provides a vend signal. If equipped, the device shall accept option of encoded parking passes and EcoCoin for value decrement usage, which provides a vend signal. The vend signal shall activate a barrier gate or other barrier to allow access.

2. Features/Functions

- a. The **EcoCoin** Entry Terminal shall be designed to dispense an EcoCoin.
- b. A 10.1-inch color LCD screen should furnish with build in capacitive touch and a resolution of 1280 x 800 for interactive operation message and optional advertisement to the patron when extracting the EcoCoin.
- c. If the device is a push button type, the patron shall push the button of "Push for **EcoCoin** " upon capacitive color touch screen or the one on front door to issue it. If the device is used in an automatic issue mode, the EcoCoin shall be issued as the vehicle has been detected on the arming loop of entrance lane.
- d. When the EcoCoin is issued, it shall be encoded with the following information: (1) EcoCoin number, (2) Date and time of issue, (3) Status of the EcoCoin, (4) Fee number, (5) Repay fee number.
- e. Upon the display of electronic paper, it should show with two lines of entry data and each line of 9 characters in height, of 4.5 mm, the first line should be the data of vehicle entry, it starts with a leading character of "E", which in short of "Entry", then follows with year, month and date, the second line, it should start with "L" for which lane vehicle enters, then the hours & minutes.
- f. If the Retract option is activated and the patron does not take the EcoCoin within the programmed time, or if a backout without EcoCoin occurs, the **EcoCoin** Entry Terminal shall retract the EcoCoin, and deposit the unused EcoCoin into a pull out self locking bin.

- g. The AutoRead Controller shall allow for local programming of **EcoCoin** Entry Terminal via the unit's keypad, programming information shall include: (1) Starting number of EcoCoin, (2) Lane number, (3) Retract time, (4) Issue fee number, (5) Repay fee number.
- h. Optional Features include:
 - (1) EcoCoin retraction capabilities,
 - (2) Push button operation, (3) Intercom installed on the face plate, and (4) Capabilities to communicate with a Port Controller to provide communications with the PC-based SCAN/ScanNet System.

3. Dimensions

- a. Maximum overall dimensions for the Entry Terminal shall be 14 1/4 in W x 57 6/8 in H x 17 1/4 in D (362 mm W x 1470 mm H x 439 mm D).
- b. The cabinet base shall be installed with four threaded bolts in 14 1/4 in W x 12 1/5 in D (362 mm x 310 mm).

4. Electrical

- a. Power input requirements shall be 115 VAC at 4 Ampere. Optional power input requirements shall be 220 VAC at 2 Ampere.
- b. The AutoRead Controller shall be powered by the controller power supply assembly.

5. Construction

- a. The **EcoCoin** Entry Terminal housing shall be of heavy gauge, aluminum welded construction, shall be designed for all weather use.
- b. The cabinet shall be finished in dual powder coat paint with a color code of Warm Gray in body & Royal Gray in skirt, (as specified) for maximum visibility and safety. Other colors shall be available when specified. The front decoration stripe shall be in orange or specified color.
- c. The cabinet shall provide front and upper access doors for easy serviceability & loading of EcoCoin.
- d. Cabinet shall be compartmentalized to allow access to the dispensing hopper and self locking bin of EcoCoin and AutoRead Controller.

- e. The front of the cabinet shall consist of an exchangeable aluminum face plate, 2.5 mm thick, molded, and machined to ensure durability and accommodate with different and option of alternative application.
- f. The Entry terminal shall include an EcoCoin read write module which shall be fastened to front door for allowing quick access by service personnel. The device shall be interfaced to AutoRead controller and read write the entry data to the EcoCoin dispensed from hoppers.
- g. The EcoCoin mechanism shall use a coin hopper to issued EcoCoin from its bowl of hopper. When the main hopper is out of EcoCoin, it will shift to the slave hopper automatically.
- h. The Entry Terminal shall provide two EcoCoin hoppers as standard, each hopper shall have a capacity of 550 pieces of EcoCoin. An option of extending the capacity of main hopper to 1300 pieces is desirable.
- i. A 250 watt heater assembly shall be provided in the inside of the cabinet.
- j. The Entry terminal shall include an AutoRead Controller, power supply, terminal board, and a Configuration Module. The Configuration Module shall be a factory programmed microcontroller (an encapsulated pc board that utilizes surface mounted technology). The Configuration Module plugs into the power board and defines the software options used in the device.
- k. The AutoRead Controller shall provide all logic control and monitoring functions of the Entry Terminal.

6. Reports

- a. The device's SST AutoRead Controller shall provide the capability to view Total Event and Exception Event reports on its visual display. Total Event reports shall provide messages for all conditions in the lane. Exception Event reports shall provide a list of unusual events.



Since 1979
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EcoCoin would be a system granted by 3M, formerly Federal APD for their Software Resource Partner Linkasia to develop and integrate to the SST system of mag stripe



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