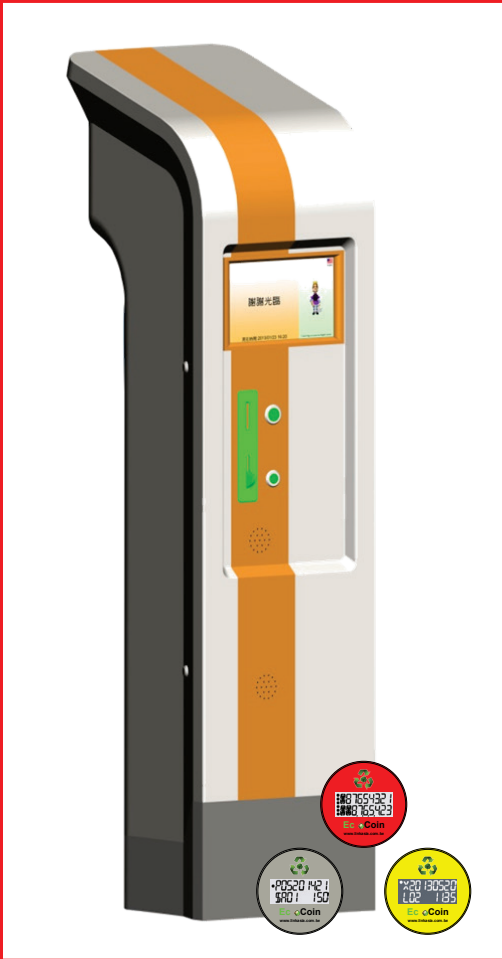


Technology of the future

EcoCoin Exit Terminal



Features:

- Provides machine-readable exit lane control when used with central cashiering systems
- No battery, Electronic Paper Display with legible exit data as the paper ticket for transient, monthly and value card usage
- Contactless technology no wearing, low maintenance costs
- Modular SST EcoCoin read write module with LED lighted inlet
- Complies ISO/IEC 14443 A standard Mifare, write endurance 100,000 cycles, data format is compatible to 3M SST mag stripe
- 10.1" capacitive color touch LCD screen with resolution of 1280 x 800 for more attractive operation message and advertisement
- Rust-resistant aluminum well weld construction
- On-line or off-line operation
- Programmable grace times

Options:

- ValueCard System

Central Cashiering Revenue Control

Located at the exit lane, the **EcoCoin** Exit terminal is used to control lane traffic with a central cashiering parking system.

With a central cashiering system, the patron receives an EcoCoin from the **EcoCoin** Entry Terminal at the entrance. Before returning to their vehicle, the patron stops at the appropriate cashier zone to pay the parking fee. The cashier (or SST Automatic Pay Station or Star APS) automatically processes the EcoCoin, collects the fee and renews the display of electronic paper with the fee due paid and where it has been surrendered, then, reassigns the same EcoCoin with a grace time pre-programmed that allows patron to return to their vehicle and exit.

At the exit lane, the patron inserts the EcoCoin into the **EcoCoin** Exit terminal, which scans the EcoCoin for validity and raises the gate automatically, providing the patron exited with the allotted grace period. If not, the machine requests that the patron return to the cashiering station to pay the amount due.

EcoCoin Read Write Module

The contactless and Mifare compatible properties in SST EcoCoin mechanism are designed to read paid data encoded on SST EcoCoin, Value EcoCoin, access EcoCoin, and short term EcoCoin, special EcoCoin, all types are processed through the single EcoCoin read write module slot.

During the time, vehicle approached the exit lane, the EcoCoin slot will be opened with the arming loop, and starts to flash

the LED on it, to guide the patron to insert the EcoCoin into the slot, the color screen of Exit terminal will show the message of "Please insert EcoCoin".

When the EcoCoin was introduced, the LED will stop to flash and the coin inlet will close accordingly. The verified EcoCoin will be rewritten with the exit time and then received to pull out self locking bin.

Durable Construction

The unit features durable aluminum construction, armored with an element resistant enamel finish for years of rust free service. The cabinet front panel consists of a 10.1-inch color TFT LCD screen with a capacitive touch display that provides instruction messages to the parking patron.

Efficient Processing

System offers you a fully integrated line of access and revenue control products that work together to deliver a true system approach to parking. The SST AutoRead System completely automates your parking operation with machine readable precision. The speed of automated egress processing - using the **EcoCoin** Exit Terminal - eliminates the need for multiple lanes while significantly reducing the congestion found at the exit lanes.



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EcoCoin Exit Terminal Specifications

1. Purpose

The EcoCoin Exit terminal shall be an automatic EcoCoin reading/verification device. It shall accept contactless Mifare encoded SST EcoCoin and provide a vend signal when a validated EcoCoin has been inserted. The vend signal shall activate a barrier gate or other barrier to allow access.

2. Features/Functions

- a. The EcoCoin Exit Terminal shall accept a contactless Mifare compatible EcoCoin. When the patron's vehicle is on the arming loop of exit, the EcoCoin Exit Terminal color screen shall display the message "Please Insert EcoCoin".
- b. When the EcoCoin is inserted, the EcoCoin Exit terminal shall read the time, date, and other information from the EcoCoin to determine the following: (1) If the data on the EcoCoin is valid, the device will vend the gate, allowing the patron to exit, (2) If the EcoCoin has not been paid, the EcoCoin shall not be accepted and the device shall display the message, "Unpaid EcoCoin, Please see Cashier", (3) If the facility codes do not match, the EcoCoin will not be accepted and the message of "Not A Valid EcoCoin" will display, (4) If grace time has not lapsed, the EcoCoin Exit Terminal shall retain EcoCoin and allow the patron to exit the facility, (5) If the grace time has lapsed, the device shall display message of "Return To Cashier" and return the EcoCoin to the patron for repayment at the overstay rate.
- c. Once the EcoCoin Exit Terminal has performed all the required checks and determines that the EcoCoin is valid, the SST EcoCoin read write mechanism shall process the EcoCoin and deposit it in a validated pull out self locking bin.
- d. The gate arm will raise and the device's visual display will show the message "Thank You".
- e. If the EcoCoin is rejected because it is unreadable, the SST EcoCoin read write mechanism shall eject EcoCoin, so that the patron may retrieve it and return to the central payment station to repay the parking fee. The message "Cannot read EcoCoin" shall be

displayed.

- f. When the EcoCoin Exit terminal is not in operation, the color screen shall show the message "Not In Operation."
- g. The AutoRead Controller shall allow for local programming using the keypad on the controller. These features shall also be programmable from the PC-based SCAN System if the EcoCoin Exit terminal has communication capabilities: (1) Paid Grace Period, (2) Unpaid Grace Period, (3) A three-digit facility code to uniquely identify the device for a particular lane or facility.
- h. The device's 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 in the lane. Messages, which appear in the Exception Event Report, shall also be displayed in the Total Event Report. The following types of conditions will be acknowledged by messages in these reports: (1) External loop input was activated, (2) A valid EcoCoin was inserted in the EcoCoin Exit Terminal which has expired its grace time, (3) An EcoCoin with an invalid facility code was rejected, (4) An EcoCoin was rejected because it was not paid, (5) An EcoCoin was rejected because it had already been used to exit, (6) A EcoCoin was rejected because the EcoCoin number was invalid.

3. Dimensions

- a. Maximum overall dimensions for the EcoCoin Exit 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 3 Ampere. Optional power input requirements shall be

220 VAC at 1.5 Ampere.

- b. The SST AutoRead Controller shall be powered by the controller power supply assembly.
- c. The EcoCoin read write mechanism shall be powered by a separate 24V DC power supply.

5. Construction

- a. The EcoCoin Exit Terminal housing shall be of heavy gauge, all welded aluminum construction.
- b. The cabinet shall be finished in a powder coat paint in dual color of warm grey for body and royal gray for the portion of skirt (as specified) for maximum visibility and safety. The decoration stripe of front panel and its hood shall be the color of orange. Other colors shall be available when specified.
- c. The EcoCoin Exit Terminal shall include an EcoCoin read write mechanism that shall be fastened to unit's front door for easy of service.
- d. The cabinet shall compartmentalize to allow access to the bin of validated EcoCoin and AutoRead Controller. The bin shall provide a capacity of 1150 pieces for EcoCoin retained and a mechanism of pull out self locking for storage control.
- e. The EcoCoin Exit Terminal shall include an AutoRead Controller, Power Supply, Terminal Board and a Configuration Module.
- f. The AutoRead Controller shall be provided with all logic control and monitoring functions of the EcoCoin Exit Terminal, be plugged directly into the connections panel via two keyed, 37-pin & 25-pin connectors.
- g. The Power Board shall provide 14 output and 11 input terminals.
- h. A 250 watt heater assembly shall be provided in bottom side of cabinet



Since 1979
Linkasia Marketing Taiwan

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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