



SAI TECHNOLOGY

CITY BUS FARE ADJUSTMENT SYSTEM



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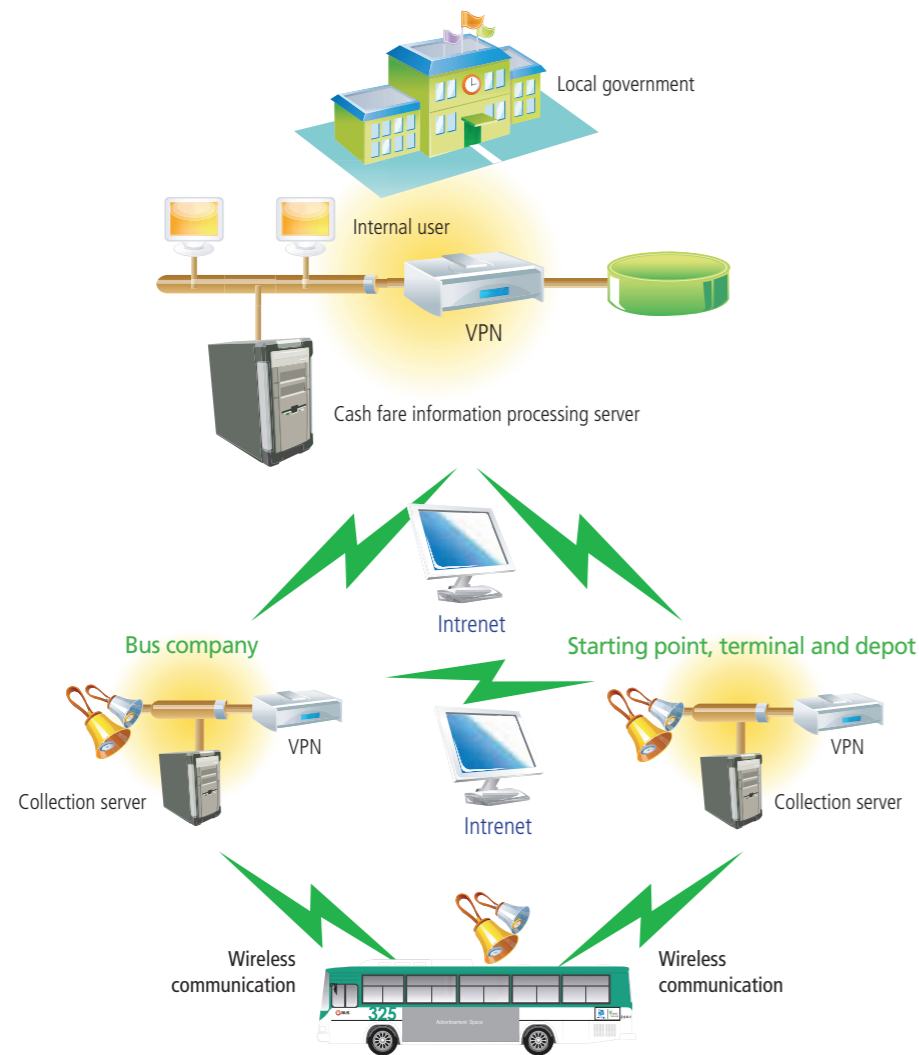
INTRA-CITY BUS FARE ADJUSTMENT SYSTEM

City Bus Fare Adjustment System

Overview of city bus fare adjustment system

- Unmanned cash fare receiving and settlement in city bus
- A product to secure transparency in cash income

Conceptual Diagram of City Bus Fare Adjustment System



System Components



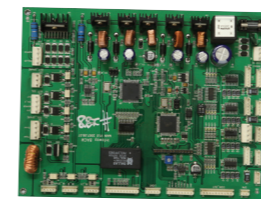
Main body



Change converter



Cash collecting box



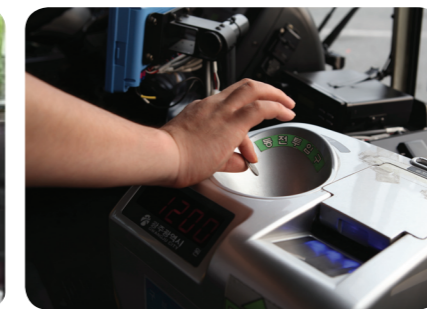
Return machine compatible board



Control panel



Cable





INTRA-CITY BUS FARE ADJUSTMENT SYSTEM

Parts Name and Description (Main body)



Coin slot

Note slot & Note processor switching door

Passenger side display window

Fare indicating label

Fake or faulty coin outlet

Cash collecting box

Slot for money, token, or ticket that cannot be processed in the product

Various connectors used for interlocking with power system, control panel, USB, or external systems

Features of cash computing system

- The most critical requirement of bus fare settlement system is processing speed for coins and notes.
- The technology of this company allows processing coins (up to 20 coins) or notes within 1 second, and the safety and performance of the system has been proved since it was installed in Gwangju city buses in 2007.
- The system distinguishes faulty coins and discharges them through the outlet.
- Collected data is encrypted and transmitted to local government servers in real time.

Parts Name and Description on Control Panel



- 01 LED showing coin counting
- 02 LED showing the communication status of the control panel
- 03 LED showing invalid processing status due to jammed coin
- 04 Control panel display window
- 05 Fare selection button
- 06 Fare change button (Refer to the part 2 functional overview)
- 07 Number button
- 08 Input data confirm button; Open the gate of point box
- 09 Functional button used for setting data (time, counter ID, vehicle ID, etc.) input and data checking (time, payment total)
- 10 Switching to data backup mode
- 11 Price input button after receiving a money (severely damaged) that cannot be processed in the machine
- 12 Input data cancel button; Open the top case
- 13 Button to allow arbitrary money return other than change process by the system
- 14 Discharge button when an object (ex, plastic) cannot be detected by the hopper in the machine is inserted; One time coin processing button
- 15 Passing button for insufficient fare or allowing to board inevitably



Software

Cash fare information management program

Cash fare information includes cash fare process information, cash income information by transportation companies, service information & income information by routes, and service information & income information by buses.

Therefore, the program serves such information to relevant organizations and bus companies and secures income transparency, so that the information can be utilized as statistical information required to establish public transportation policies by relevant organizations, and to make business decision by bus companies.

Mumu	Function
Information by company	Total statistics for a company income
Information by bus	<ul style="list-style-type: none"> Income information for a relevant bus Service information for a relevant bus (Service time, depot arrival & departure information, boarding capacity, etc.)
Information by route	<ul style="list-style-type: none"> Income for a relevant route Service information for a relevant route (driving bus, boarding capacity, etc.)

Effectiveness of Automatic Cash Computing System

Introducing automatic cash computing system provides not only effective management in cash income and bus services, but also secured information required to establish transportation policies and effects to increase cash income.



What is automatic cash computing system for city bus?

How can we achieve transparent management for cash income from city buses?

This product has been developed to solve such issue, and provides solutions to settle the cash income without intervention from third-party and to receive cash fare paid by passengers transparently.