

AUTOMATIC FARE COLLECTION SYSTEM (AFC)

Providing Contactless Commuting Experience



Leaping Forward In Transit Payment

A Fare Collection Solution that integrates Closed Payment, Open Payment and Hands-Free Payment in One Revolutionary Payment Solution, catering for diverse payment methods of passengers.

The fast evolution of today's technologies empowers us to offer commuters a wide spectrum of ticketing solutions. With the advent of smart, feature-rich mobile devices, as well as advancement in data communication and biometric recognition technology, we have created solutions for mass adoption in public transportation.

All-in-one AFC System

- Closed Payment Transit-Issued Contactless Smart Card
- Open Payment Near Field Communication
- Hands-Free Payment Long Range Communication Smart Tag or Biometrics
- Barrier-Free Fare Gate System



CLOSED PAYMENT

The all-in-one AFC solution continues to offer Transit-issued contactless smartcard-based end-to-end solution for fare collection and payment. Commuters can scan their single journey ticket or their stored value card for fare verification and payment at entry and exit check-in terminals.

OPEN PAYMENT

Fare Verification and Fare Payment can also be facilitated via Open payment media using Near Field Communication. Commuters can scan their Credit Cards, Debit Cards, or devices embedded with Apple Pay, Samsung Pay, Android Pay, QR e-Wallets like Alipay, WeChat Pay, GrabPay and etc at entry and exit check-in terminals. This caters to the community who embraces the consolidated post-payment process, doing away with the hassle of ticket purchase, pre-travel payment and topping up of Transit-issued cards.

BARRIER-FREE FARE GATE SYSTEM

The Barrier-Free Gate allows commuters to walk past the barrier-free passageway without the need to scan their travel ticket.

- Detecting and deducting the ticket price through the long-range RFID or the facial recognition technologies
- Detecting and identifying tailgating
- Increasing passenger throughput
- Reducing operating and maintenance costs
- Applicable for buses and autonomous vehicles

HANDS-FREE PAYMENT

Smart Tag

Using Long Range Communication Smart Tag technology, commuters entering and exiting the gate can be individually identified. Fares incurred for that passenger is accounted at the back office and via his Personal Travel Account, and billed based on a pre-determined billing cycle. With this payment method, the commuter simply walks through the gate.

Biometrics

An alternative to card usage, passenger identification can be replaced by biometric recognition technology. In this case, the passenger simply walks through the Automatic Fare Gate. The passenger's profile is automatically identified, with the appropriate fares recorded into the Personal Travel Account and billed to the passenger based on a pre-determined cycle.

INTERACTIVE TRAVELLER TERMINAL (ITT)

Interactive Traveller Terminal (ITT) combines the functions of the Passenger Service Office, Top-Up Terminal and Ticket Vending Machine into a sleek-looking terminal. Another key feature of the ITT is the creation of a Personal Travel Account (PTA) to facilitate account-based payment. With a PTA, a commuter is able to enjoy "hands-free" access.

Equipped with an optional full high definition two-way video conferencing feature, the ITT serves as a live helpdesk which allows commuters to communicate with a Customer Service Officer (CSO). A single CSO can now manage passenger enquiries from multiple terminals from a remote location, thus optimising the deployment of resources. The CSO is able to view and remotely control the ITT simulating close proximity to the commuter.

With its modular design panel, different components such as a bank note acceptor, barcode scanner, credit card terminal, card reader, receipt printer are interchangeable, customisable and easily maintained. The ITT also provides a platform for revenue generation through advertisements, including an added feature of profiling commuters through facial recognition for targeted advertising.

ADD ON MODULES

- INTEL I5/I7 CPU Electronic Control Unit
- Contactless Card Reader (EMV, TYPE A,B,C and NFC)
- Remote Video Support
- Ticket Dispenser
- Receipt Printer
- Barcode Scanner
- Bank Note Acceptor / Recycler
- Coin Module
- Credit Card Terminal with Pin Pad
- Webcam
- Handset

TYPICAL DIMENSIONS:

Height - 2,000mm
Width - 657mm
Depth - 500mm
- 725mm with base

Improving Operational Efficiency, Enhancing Commuters' Travelling Experience.

ITT combines the functions of the Passenger Service Office, Top-Up Terminal and Ticket Vending Machine into a sleek-looking terminal.

- Sleek Free Standing Self-Service Kiosk
- High Resolution Large 42" Infrared Multi-Touch LCD Screen
- Wheelchair Friendly Ergonomic Design
- Tempered Glass Front and Secured Rear Access
- User Friendly Interface
- Advertising Platform
- Fully Customisable Options and Features

ST Engineering Electronics Ltd.

www.stengg.com

URS-Marketing@stengg.com

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