



AGIL[®] 

AUTOMATIC FARE COLLECTION SYSTEM

 ST Engineering

AGIL® Automatic Fare Collection System

With increasing metro ridership and passengers' expectation, it is crucial for metro operators to leverage biometrics, contactless and mobile technologies to ensure the process of fare purchase and validation is fast, safe and seamless for commuters.

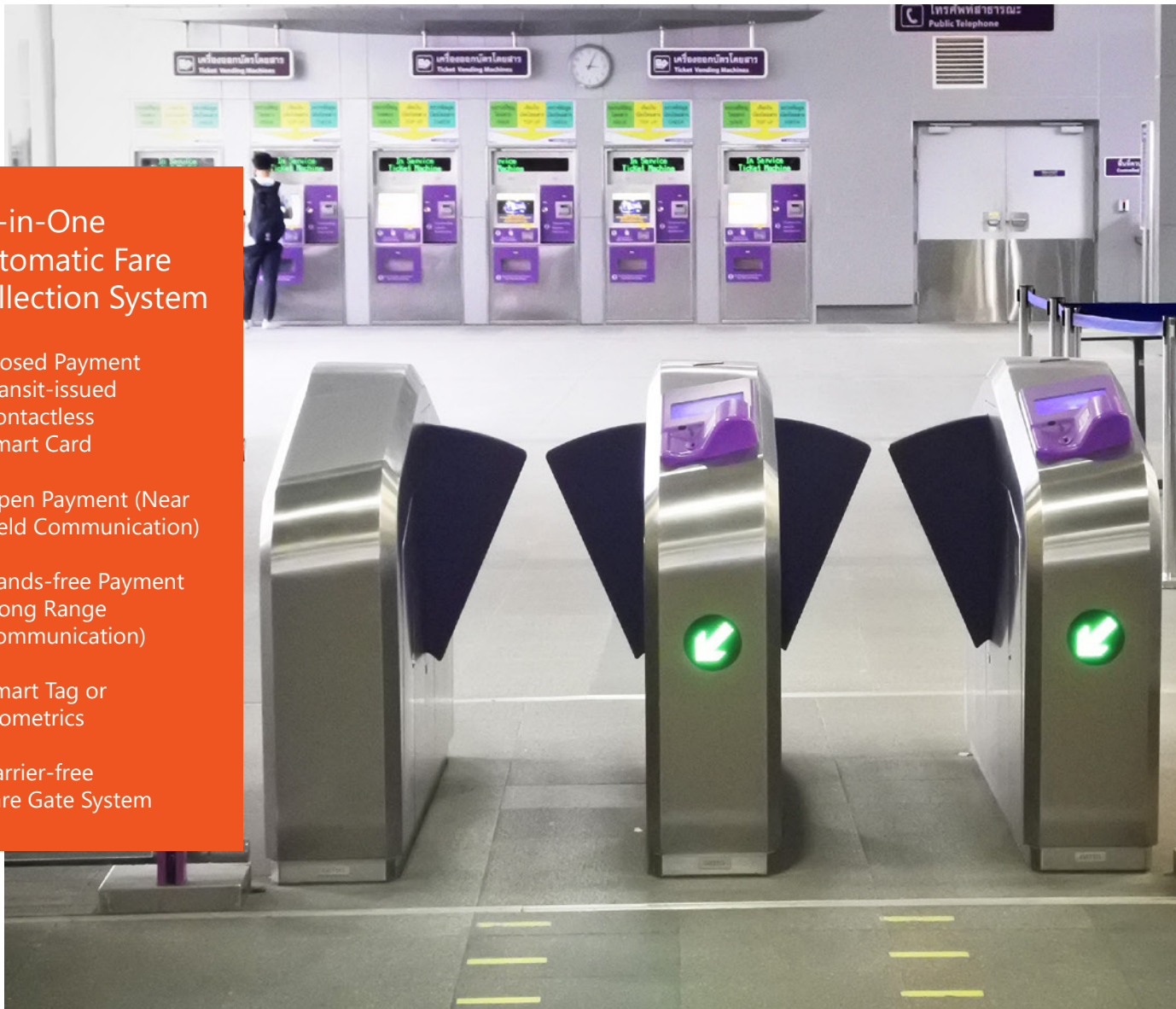
Seamless, Safe and Efficient Transit Payment

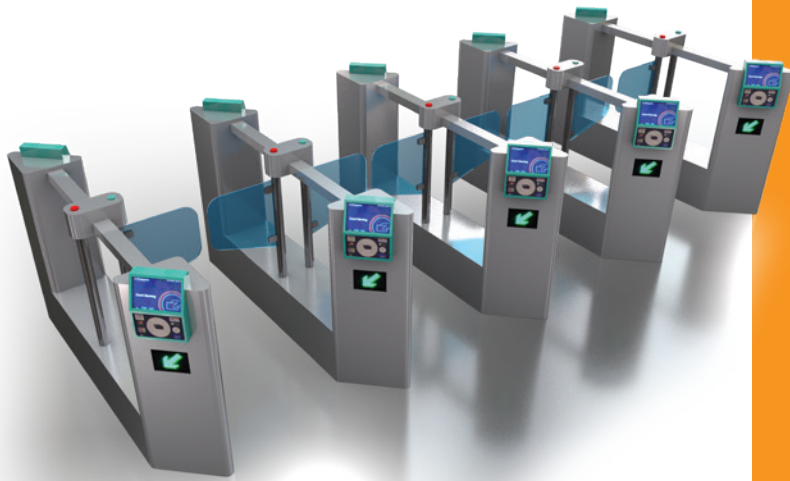
AGIL Automatic Fare Collection (AFC) System integrates closed, open and hands-free payment in one revolutionary solution to cater for the diverse payment needs of passengers, while enabling them to conveniently transit between various transport modes and networks.

With the advent of smart, feature-rich mobile devices, as well as advancement in data communications and biometric recognition technology, our suite of solutions is designed to embrace the latest innovation to speed up mass adoption of public transportation.

All-in-One Automatic Fare Collection 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 uses transit-issued contactless smartcard that offers an 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 the entry and exit terminals.

Open Payment

Fare verification and payment can also be facilitated through an open payment method through Near Field Communication (NFC). Commuters can seamlessly pay fares by scanning their credit cards, debit cards, or devices embedded with Apple Pay, Samsung Pay, Android Pay, QR code eWallets such as Alipay, WeChat Pay and GrabPay, at the entry and exit terminals. This caters to commuters who use the consolidated post-payment method that removes the hassle of ticket purchase, pre-travel payment and topping up of transit-issued cards.

Hands-free Payment

Smart Tag

Using long range communication smart tag technology, commuters entering and exiting the system can be individually identified. Fares incurred by the passenger is accounted for by the backend office through a pre-registered Personal Travel Account, and billed based on a pre-determined cycle. Commuters do not need to take out the smart tag, they can leave it in their pockets/bags and simply breeze through, minimising dwelling time and increasing operational efficiency.

Biometrics

An alternative to card usage, passenger identification can be replaced by biometric recognition technology. When the passenger walks through the fare collection point, his profile is automatically detected and identified, the appropriate fare is recorded in the pre-registered Personal Travel Account and billed based on a pre-determined cycle.



Barrier-free Fare Gate System

Offering contactless fare collection for safer metro experience, the Barrier-free Gate System allows commuters to walk past a gateless passageway without the need to scan their travel ticket. It uses long range RFID or facial recognition technologies to detect, validate and deduct payment.

The Barrier-free Fare Gate System is also applicable to bus fleets and autonomous buses.

Key Benefits

- Detect and identify tailgating to minimise revenue leakage
- Increase passenger throughput
- Reduce operating and maintenance costs



Interactive Traveller Terminal

Integrated Services, Hands-free

The Interactive Traveller Terminal (ITT) combines the functions of the Passenger Service Office, Topup Terminal and Ticket Vending Machine into a sleek looking terminal to enhance ticketing experience. Commuters can easily set up Personal Travel Accounts through the ITT to facilitate account-based payment. It also offers safer contactless account setup using facial recognition.

Remote Helpdesk for Multiple Terminals

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 remotely manage passenger enquiries from multiple terminals, optimising resource deployment. The CSO is able to view and remotely control the ITT, simulating close proximity to the commuters.

Modular, Customisable

With the ITT's modular design panel, different components such as a banknote acceptor, barcode scanner, credit card terminal, card reader and receipt printer, are interchangeable, customisable and easily maintained. The ITT also provides a platform for revenue generation through advertisements, including an optional feature to profile 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

Key Specifications

- 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

Typical Dimensions

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

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