



Mass Transit Solutions

BUILDING SMART CITIES

To control and regulate high flow of passengers and prevent unauthorised passage and tailgating, TANSA offers cost effective, efficient and innovative mobility solutions with minimum service needs and running costs.



Mass Transit

Connecting People in Smart Cities is a challenge. More than 50 percent of the world's population already lives in cities. Continuous growth of urban population requires for these urban areas to turn in to smart cities which requires an efficient public transport system.

Public transportation provides people with mobility and access to employment, community resources, medical care, and recreational opportunities in around the world. It benefits those who choose to ride, as well as those who have no other choice.

The incorporation of public transportation options and considerations into broader economic and land use planning can also help a community expand business opportunities, reduce sprawl, and create a sense of community through transit-oriented development. By creating a locus for public activities, such development contributes to a sense of community and can enhance neighborhood safety and security.

For these reasons, areas with good public transit systems are economically thriving communities and offer location advantages to businesses and individuals choosing to work or live in them. In times of emergency, public transportation is critical to safe and efficient evacuation, providing the resiliency needs in its emergency transportation network.

Public transportation also helps to reduce road congestion and travel times, air pollution, and energy and oil consumption, all of which benefit both riders and non-riders alike.



3 CONTINENTS
6 COUNTRIES
22 CITIES





Sustainable Mobility

One of the greatest environmental challenges we face today lies in mobility. People need a seemingly infinite network of vehicles and transportation systems to uphold societies and economies.

Mobility is an essential aspect of life. With urbanization rampantly on the rise, cities are the focal points where safe, accessible, efficient, and sustainable mobility is needed for all. Dramatically increasing passenger and freight transport can pose a threat not only to the global climate, but also to the urban environment, citizen health and livability in cities.

Transportation systems are of great importance in ensuring economic, social and environmental sustainability.

14.5% of the total greenhouse gas emissions in the world originates from the transportation sector. If the increase in personal car use continues at the current pace, the energy use and emissions of the transport sector are expected to increase by 80% by 2050. Most of the emissions are released in cities with more than half of the world's population. Mass transportation systems helps reduces the total carbon print.



The Future of Mobility

Technology will form the backbone of mobility in the future. Today, a large portion of mobile devices and connections is in Asia Pacific, the Middle East, and Africa. More data and connectivity can lead to more efficient and convenient mobility, offering great opportunities for developing countries to leapfrog existing legacy technologies and practices.

Our Product & Solutions

To control and regulate high flow of passengers and to prevent unauthorised passage and tailgating, TANSAG offers cost effective, efficient and innovative mobility solutions with minimum service needs and running costs.

Turnstiles & Gates for Mass Transit

High traffic/high intense turnstiles and gates for public transportation systems.

- Hidden Speed Gates
- Tripod Turnstiles
- Swing Gates

Smart City Integrations

- Smart City Transit & Non-Transit Solutions
- Automated Fare Collection System
- Instant Issuance
- Mobile App / QR code / SMS Payment Solutions
- Fleet Management System



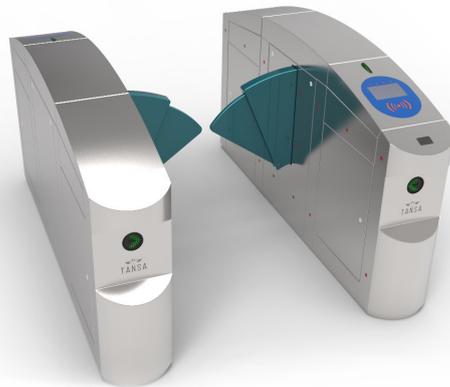


LTOP 601

Mass Transit Speed Gates



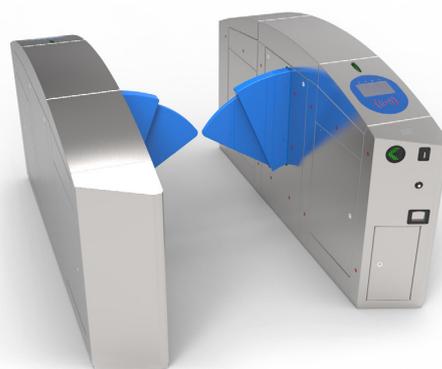
LTOP 601 MT



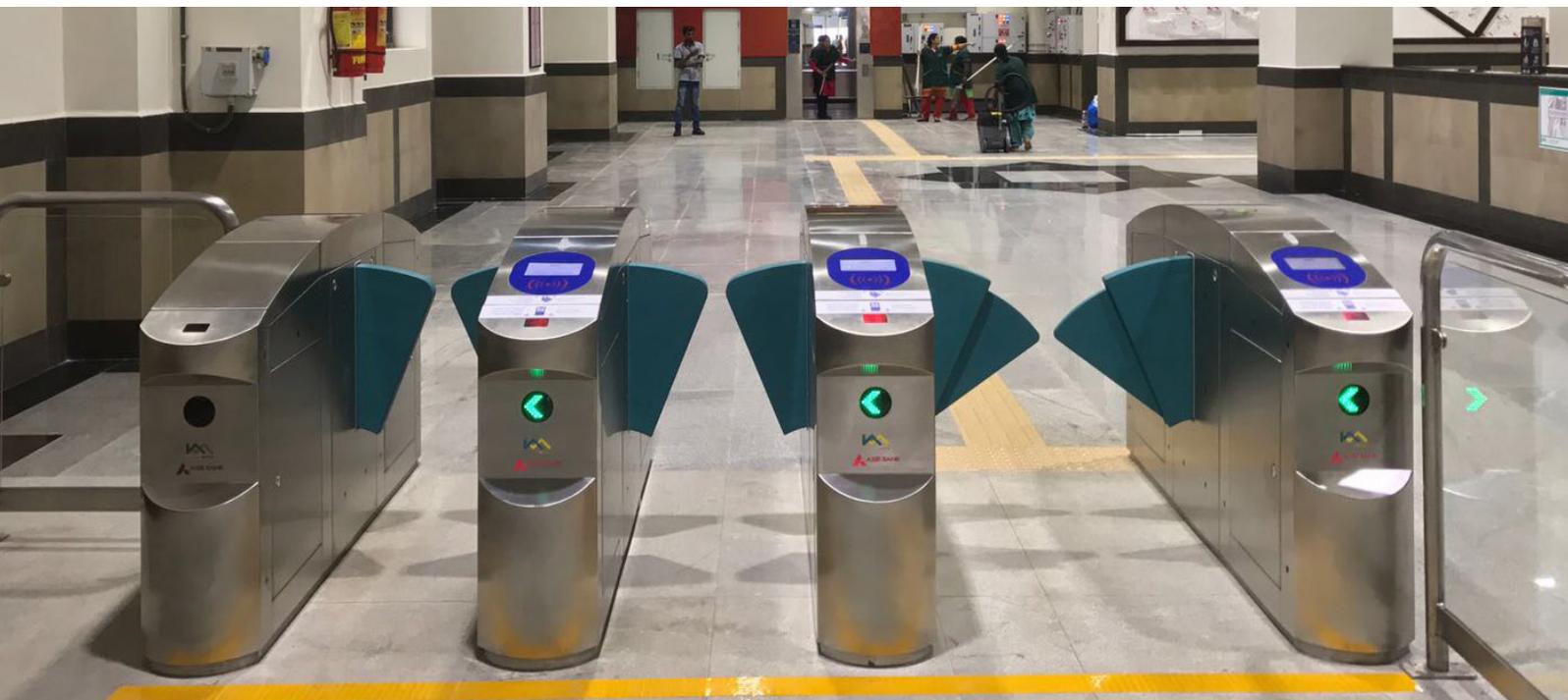
LTOP 601 MT G



LTOP 601 MT J



LTOP 601 MT JG





LTT 403 MT
Mass Transit Tripod Turnstile



SG 403 MT / MT ADA
Mass Transit Swing Gate





Automated Fare Collection Systems



- AFC System builds a modern infrastructure for Public Transportation System using the newest technologies practiced globally
- AFC system ensures to prevent tax losses arising from off the record operations
- AFC Smart cards used for public transportation become payment instruments and city cards allow people to make easy payments for various services
- AFC smartcards are not dependent to any bank; Card owners may top-up using cash or credit card given by any bank.
- AFC system can also integrate the cards with other financial organizations such as banks and mobile operators by keeping CityCard at the center



EMV Card based AFCS



Account Based AFCS



Multi Modal Transport Solution



Closed to Open loop Migration Services



Features of AFC System

- Supports multi-model transportation
- Supports cards, tokens, mobile payment, QR codes and other means of payment
- Web and mobile services
- Close loop
- Open loop; Visa, Mastercard, and other payment schemes

AFC System Benefits

- Prevents tax losses arising from off the record operations
- Fully Integrated Fare Collection System for public transportation
- Mass transit line optimization; fleet utilization and revenues
- Custom designed solutions for each city & administration
- Complementary city card applications; payment systems, access to stadiums, museums, schools, parking lots, etc..
- City-wide ticket sales operations
- Enhanced analysis & reporting capabilities
- Value Added Services to generate revenue for administration
- Citizen satisfaction with secure and reliable service covering daily city life

Solution Stack



Smart City- Transit & Non-Transit Solution



Automated Fare Collection System (AFCS)



Instant Issuance



Mobile app/QR code/SMS Payment solution



Fleet Management System



Payment Solutions to Address Pain Points in Mobility

Multiple ticketing for travel in a city



One ticket type for all modes of travel in a city

Multimodal ticketing system

Absence of a ubiquitous payment instrument



Bank Cards, Mobile phones for payment

EMV Bank cards, QR code, HCE

Cash is inconvenient in ticketing



Moving payments in transit to electronic and digital

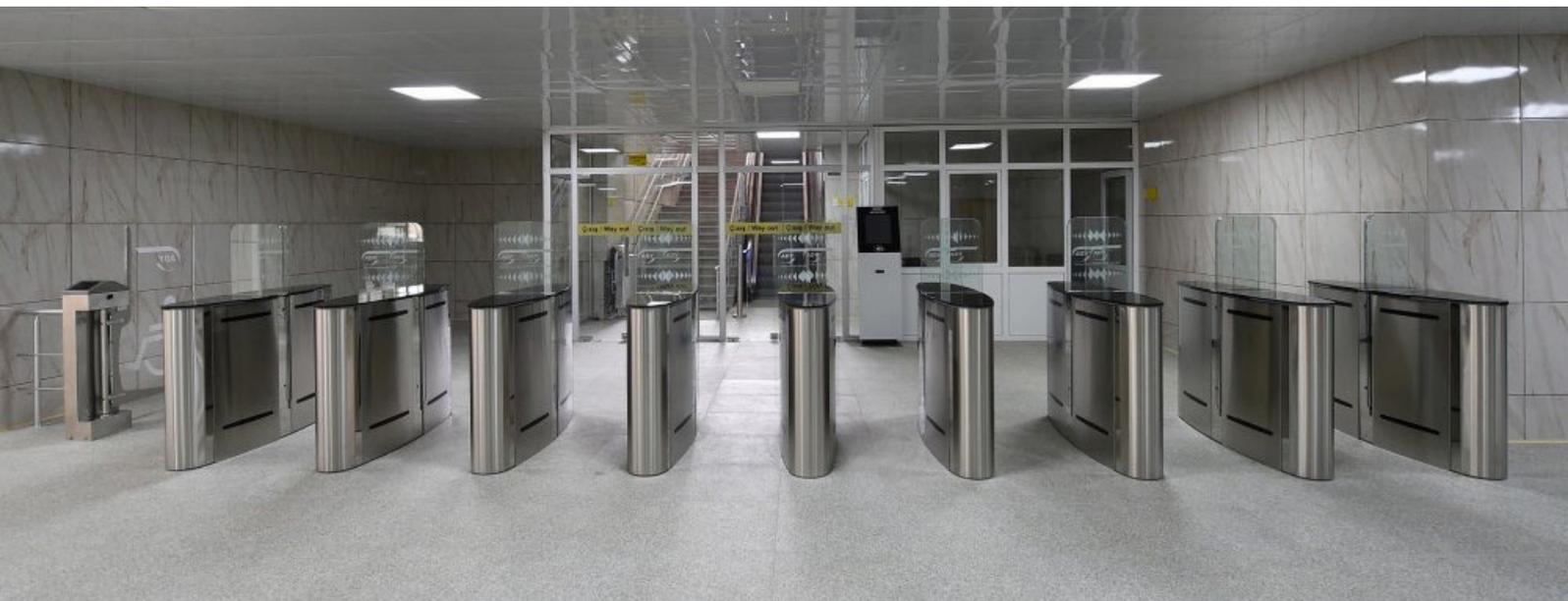
App. based mobile ticketing platform

Online payment system not suitable for transit



EMV Offline payment solutions

Contactless Offline payment platform





AFCS in Transit Projects

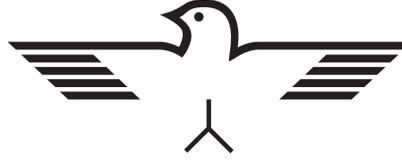
Raipur Buses Open Loop Automated Fare Collection System Transit Card issuance platform Transit Acquiring Solution	Kochi Buses Open Loop Automated Fare collection system Transit Acquiring Solution Operations and maintenance of AFCS system.	Kochi Metro Consulting and design the transit payment and Open Loop AFCS system. Operations and maintenance of AFCS system.	AICTSL Closed Loop AFCS for AICTSL buses in Indore Operations and maintenance of AFC system.
--	---	--	--

Mumbai Metro Line 1 Upgrade of closed loop AFCS to open loop AFCS – Software and Hardware	Chennai Metro Upgrade of closed loop AFCS to open loop AFCS – Software and Hardware Operations and maintenance of both Closed and Open AFC system.	Mumbai Metro Line 3 Open Loop AFCS Software (Colaba to Seepz)	Pune Metro End to End Greenfield AFCS implementation of Pune Metro
--	---	--	---

Ahmedabad Smart City Consulting and design the transit payment system Transit Card issuance platform Transit Acquiring Solution	Surat Smart City Consulting and design the transit payment system Transit Card issuance platform Transit Acquiring Solution	BMTC Consulting and design the transit payment and AFC system. Transit Card issuance platform Transit Acquiring Solution	Bhubaneswar Transit Card issuance platform Transit Acquiring Solution
---	---	--	--

Noida Metro Transit Card issuance platform	Nagpur Metro Transit Card issuance platform	NMMT Transit Acquiring Solution	GMDA Transit Card issuance & acquiring platform
--	---	---	---

Mastercard
Mastercard's preferred partner for all open loop transit projects in the country



TANSA

SINCE 1962

—

Tansa Germany

Mariaweiler str 89a 52349
Düren - Germany
T +49 0173 935 57 43

Tansa Turkey

Ramazanođlu Mah. Sanayi Cad. No: 54 / 1 Şeyhli
Pendik / İstanbul - TURKEY
T +90 216 561 96 71

Tansa North America

2275 Research Blvd. Suite 500
Rockville MD 20850 U.S.A.
T +1 240 413 3314

Tansa Americas

Boslil House Rodney Bay Marina Gros
Islet LC01 401 Saint Lucia
T +1 246 826 3630

Tansa India

C-304, Lodha Aurum Grande, Kanjurmarg East,
Mumbai, 400042
T +91 996 716 7664

Tansa France

650, Route du Bord de Mer - RN98 06700
Saint-Laurent-du-Var | France
T +33 042 253 73 73