



Driverless Shuttle EZ10



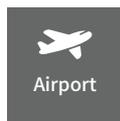
President Tsai Ing-Wen experience Driverless Shuttle

Eco Transportation, Intelligent Shuttle

Eco-friendly, Safe, Comfortable

100% Electric driverless shuttle EZ10, a SAE Level 4 high autonomous intelligent vehicle, has max capacity of 12 passengers (6 seated/ 6 standing). EZ10 possesses high efficient localization & navigation system, combining new detection and navigation technology. Having complete safety system, EZ10 will slow down or stop when obstacle is detected.

Application Fields



Airport



Industrial Area



Amusement Park



Hospital



Campus



Conference Center

How does EZ10 work



MAPPING & SCHEDULING

Engineer starts to do the mapping and route planning after site survey



AUTOMATED & SMART OPERATIONS

Running on a planned route, EZ10 can detect the change of environment (obstacles, pedestrians etc.) in safe distance



FLEET MANAGEMENT

EZ10 can communicate with each other ; control room arranges the running schedule

EZ10 Introduction



Dimensions

3.928 x 1.986 x 2.800 m (L x W x H)

Weight & Capacity

Gross Vehicle Weight: 2800 kg

Max. Load capacity: 1000 kg (12 people + light luggage)

Performance

Energy: Electric

Mileage: 10 hours

Max. Slope: 15%

Max. Speed: operating max speed is currently limited to 20 km/h. the powertrain allows a maximum speed of 40 km/h.

Application Scenario

Self-driving shuttle V2I/V2V application

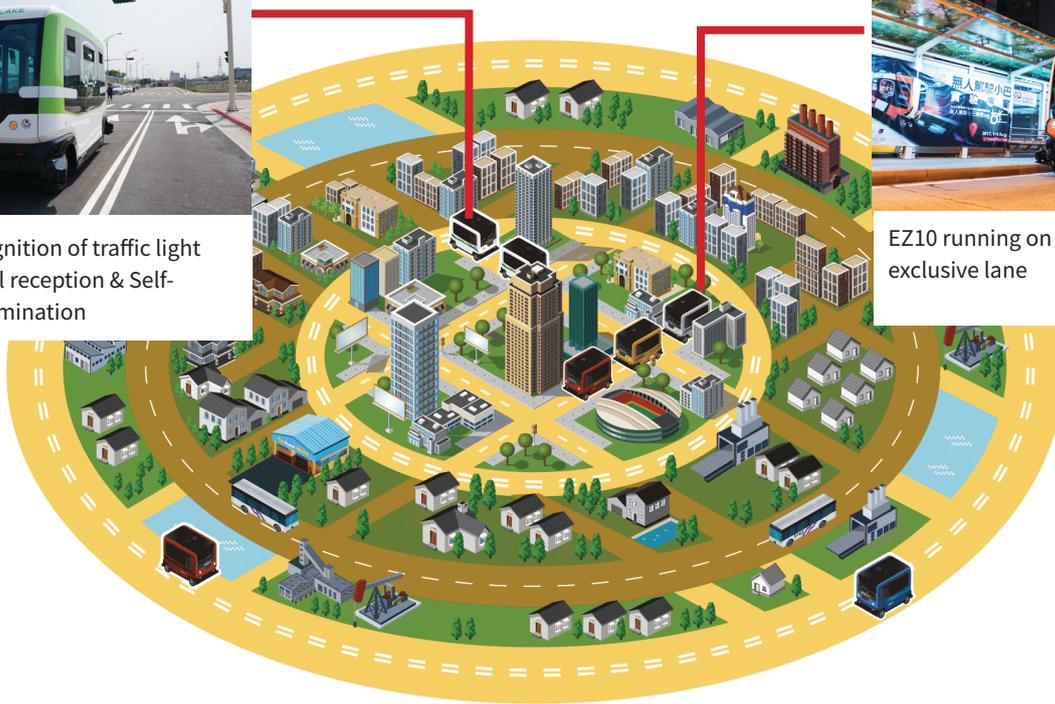
Integrated with V2X/V2I IoT application, we aim to connect information between vehicle, infrastructure and person. Through signal reception between OBU (onboard unit) and RSU (roadside unit) with the self-determination and reaction of self-driving shuttle, we look forward to enhance the safety and stability of transportation.



Recognition of traffic light
Signal reception & Self-determination



EZ10 running on an exclusive lane



Urban & Suburb “first and last mile” transportation
Grid Bus Network

Operation Model



7Starlake App

Easy Ride, Easy Pay, Easygoing
A multi-function App of self-driving shuttle

- ✓ Self-Driving Shuttle E-ticket
- ✓ Map, real-time location
- ✓ Business Cooperation with store
- ✓ Special discount for online shopping



Combined with future in-car AR

Passengers can see store information inside shuttle and complete real-time purchase

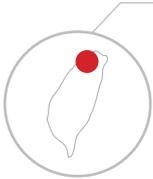
EZ10 in Taiwan

2017/05/12
**Driverless Shuttle
 Debut in Taiwan**



- Campus transportation with five stations
- Mixed scenarios of pedestrians and vehicles

TAIPEI



2017/7/7-13
**Test Ride in
 Shuiyuan Campus,
 NTU**



2017/8/1-5
**2017 EZ10 Mid-night
 Experimental Project@
 Taipei**

- GPS Signal Evaluation
- High Precision Mapping & Route Planning
- Driving Reliability Testing
- Service Integration Testing
- Focus Group Test Ride



CHANGHUA



2017/10/25-29
**Changhua Green
 Energy Industry Series**

- connecting with current public transportation - THSR Changhua Station



KAOHSIUNG



2017/10/1-10
**EcoMobility World
 Festival 2017**



Picture: Taipei Eco Move

- First and Last Mile Transportation
- Connected between light rail station Penglai Pier-2 and station Hamasen.



2017/11/6-12/7
**Driverless Shuttle in
 Asia's New Bay Area in
 Kaohsiung!**



- Test Ride for a complete month with complicated operating path.
 (S-shape route, bridge-crossing)



EZ10 to the world

EZ10 has operated in over 20 countries, over 80 sites, including Asia, North America, Near East and Europe.

EZ10 Commercial Operations



**2016
 Singapore
 Gardens by the Bay**

EZ10's first project in Asia, Singapore Gardens by the Bay introduced 2 EZ10 to provide transportation service in the garden of 101 Ha. With 1,000m operating length, the shuttle is able to transport 50~100 passengers per day.



**2017
 Australia
 Darwin Waterfront**

EZ10 serves between Waterfront precinct and Stokes Hill Wharf. Running on a 1,000m long path, the shuttle transported over 3,500 passengers.

New Approach



**2018
 USA
 California public road trial**

EZ10 driverless shuttle became the first driverless bus approved to run on public roads in California as it made its debut on the public roads of Bishop Ranch.

The New York Times



In Taiwan, Modest Test of Driverless Bus May Hint at Big Things to Come

The bus drove itself raising hopes in Taipei that autonomous public transportation would be up and running here within a year. The bus tests are partly to prove that the autonomous-driving technology is safe to deploy on the city's busy streets, and partly to gather the data needed to improve the artificial intelligence that steer such vehicles. The effort, one of the earliest in Asia, could help position Taiwan as both a pioneer in autonomous public transportation and, if things go according to plan, a producer of driverless buses.



No one at the wheel – Taiwan tests driverless electric bus

TAIPEI, July 13 (Reuters) - The boxy, electric bus bouncing along a road in a leafy university campus in Taiwan is fitted with special high-tech sensors, but it has no driver at the wheel.



Taipei, TW is piloting AVs

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Taipei has but a single Easymile EZ10 driverless shuttle under testing in Xinyi District, the country's seat of finance and government power.



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TAIPEI (Taiwan News) — The first electric self-driving bus in Taiwan, EZ10, hit the road at National Taiwan University Shuiyuan Campus (台灣大學水源校區) Saturday and people can register for a test drive, reports said.

EZ10 is a Level 4 self-driving bus belonging to the A.I. driverless vehicle R&D team, which was established by NTU in collaboration with 7Starlake (喜門史塔雷克) late in May.





Kaohsiung Launches Driverless Electric Bus

Kaohsiung City Mayor Chen Chu is launching Taiwan's first driverless electric bus.

Imported from France with some components assembled here in Taiwan, the bus will ply city streets this October for the Eco-Mobility Festival, when all gas burning vehicles will be barred from Kaohsiung's historic Hamaxing neighborhood.

TAIWAN TODAY

Self-driving bus set for testing in Taipei

2017.7.28

A self-driving bus will be put through its paces Aug. 1-5 in Taipei as part of local government efforts to spur the metropolis' s smart city development and further enhance the quality of life for residents.



Driverless bus test in Taipei gets positive feedback

2017.8.5

Taipei, Aug. 5 (CNA) A five-day driverless bus test conducted by the Taipei City government has received positive feedback from government officials, system developers and members of the public.



Changhua, TW is preparing

Changhua hopes to combine existing efforts to develop sustainable energy, which includes the largest of Taiwan's 21 offshore wind farms, with an ambitious program of AV pilots.





7STARLAKE Co, Ltd.

7STARLAKE (SSL) is Smart City & Intelligent Transportation Consultant. We concentrate on providing practical and enduring proposal, service, and technique, supporting and equipping our clients to innovate, grow, and lead. We specialize in Unmanned Technology Service and Smart City solution, especially in Intelligent Transportation Solution. Possessing high ambition to achieve Smart City future plan, SSL dedicates itself into study technology and knowledge in different fields, including driverless vehicle, LIDAR Enforcement & Traffic Management, V2X system etc. Among these critical technologies as important elements in Smart City, SSL had taken the first step on bringing the first unmanned shuttle bus into Taiwan.

EZ10, Level 4 driverless shuttle bus, is manufactured by EasyMile & STACKRACK of SSL group. The computer system of EZ10 is manufactured in Taiwan. EZ10 has operated in over 20 countries, over 80 sites, including Asia, North America, Near East and Europe. The main shareholders including French company ALSTOM, German company CONTINENTAL etc.



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