

# OpenPark IoT Parking Solution



# OPEN PARK



# About OpenPark Technologies Kft

- We develop embedded devices, sensors and controllers for smart mobility and smart buildings and utility infrastructure integration
- that brings open IOT enabled solutions to the hands of city operators, real estate developers and facility managers

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Ready and Deployable Products and Services Combined with  
Product Design Services enabling Smart Cities with open architecture solutions



# R&D and Manufacturing capabilities



- Electronics and software R&D and manufacturing in Hungary since 2014
- Manufacturing of mechanical and electronics elements at manufacturing facilities at Pecs and Budapest facilities in Hungary
- ISO 9001-2015, ISO 14001-2015 Certification
- Comprehensive development & testing process
- Hardware & Embedded software skills (wireless microcontroller, wireless protocol, IoT web development, Android & IOS apps)
- Full in-house design and development from prototypes to certification process
- R&D product customization capabilities





# OpenPark Solution Overview

## PARKING MANAGEMENT SYSTEMS

Cloud solution with local gateways to manage all parking activities, access control for vehicles and pedestrians.



## PARKING GUIDANCE SYSTEMS

Parking sensors and parking counters can collect & publish to the cloud & data is pushed to mobile apps and displayed in LED signs.



## ACCESS CONTROL AND TICKETING

Management for facilities access whether permanent, temporary, ticket or invitation.



## E-PAYMENTS AND E-WALLETS

Mobile app can accept credit cards globally and local e-payment partners integrated in several markets.



# SMART PARKING KEY BENEFITS



**No cash** needed for car owner and no cash handling



**Balance** reach Property owner / parking operator in real time



**Easy mobile app** with Google map navigation to free spot



**Dynamic pricing** according to the day of the week, hours or holidays

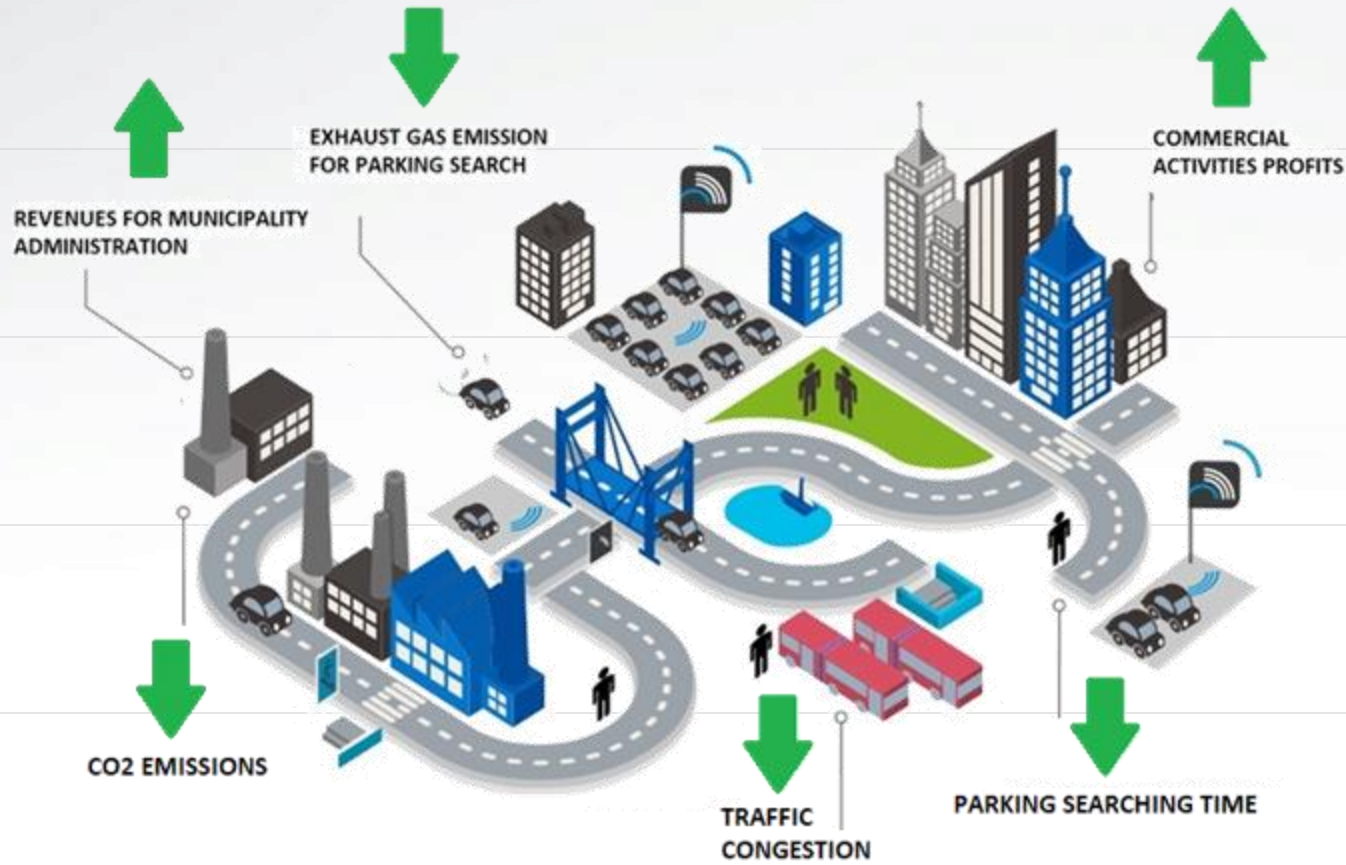


**Real time update** with verification images from the street / parking lot to the cloud





# Why OpenPark



## BENEFITS FOR CITIES



Open API



White label



IOT Cloud Solution



Cash-less

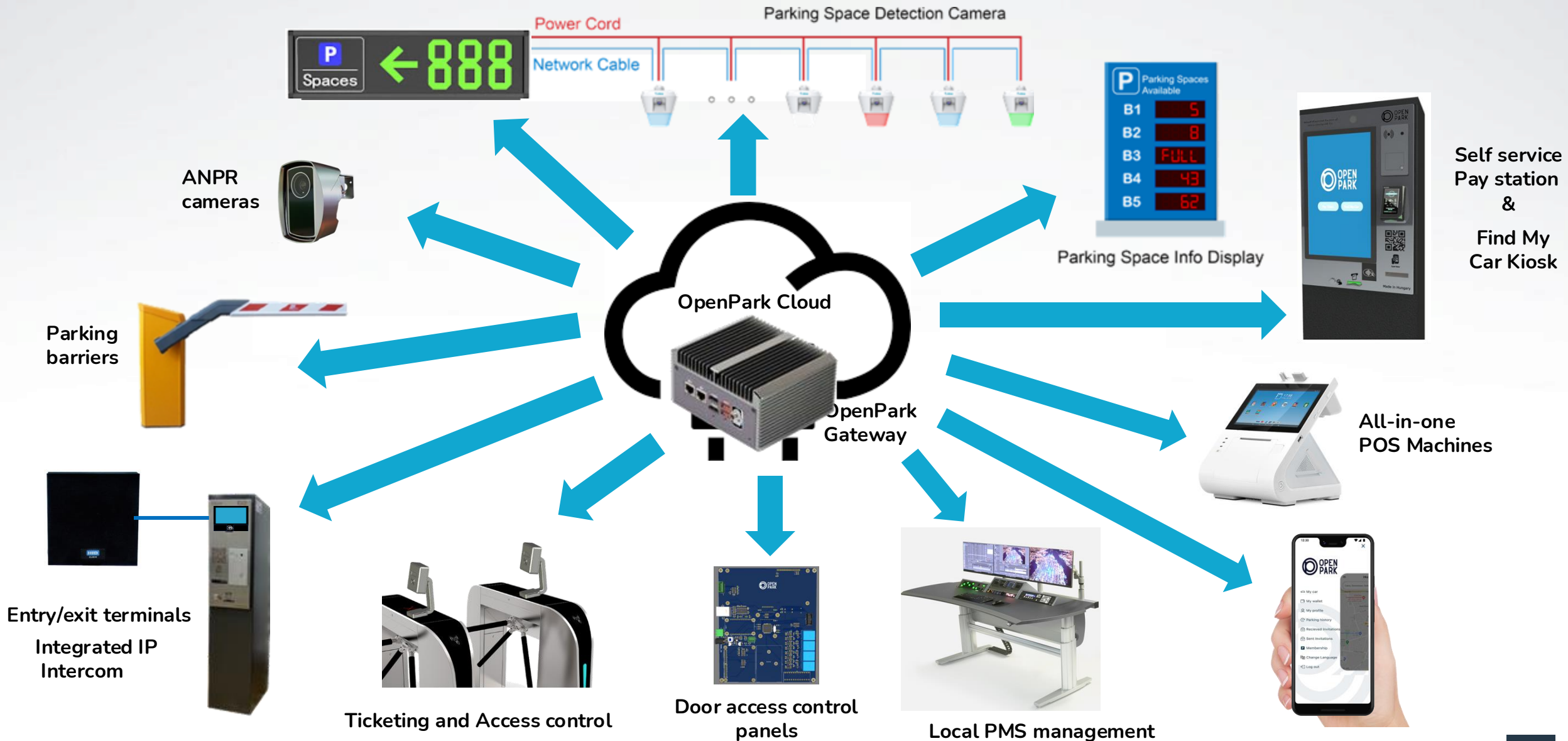


Ticket-less



EU quality

# Parking / Access control solution



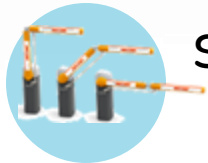


# Our Product (2/2) – Peripherals

## Parking Access Control



Smart Gate terminals

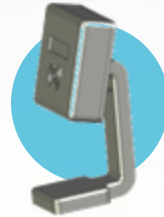


Smart Barriers



License plate recognition cameras

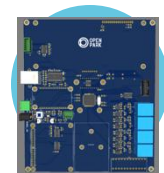
## Pedestrian Access Control



Smart Access control readers / Ticket reader terminals



Smart Turnstiles



Access Control Panels

## Parking Guiding Systems



Parking space detection LoraWAN

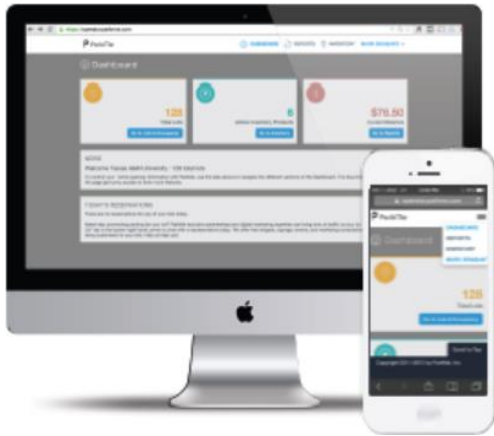


Integrated ultrasonic parking space detector-indicator



LED Information displays

# Product (1/3) – OpenPark Cloud



Accept Mobile Payment



Add Parking Locations



Sell Reservations



Add Pictures of Locations



Update Parking Info



Reporting & Analytics

- OpenPark hosted Cloud Parking / Ticketing Solution
- Web dashboard and mobile app
- Can monitor space utilization and electronic payments real time

**Open IOT integration of other traffic control and infrastructure systems and other Smart city applications**

## Third party integration



Third party IOT platforms (MQTT – Comulocity – Software AG, RapiMQ)



Video Management Systems and Access control (OPC-UA – Milestone- Tyco)

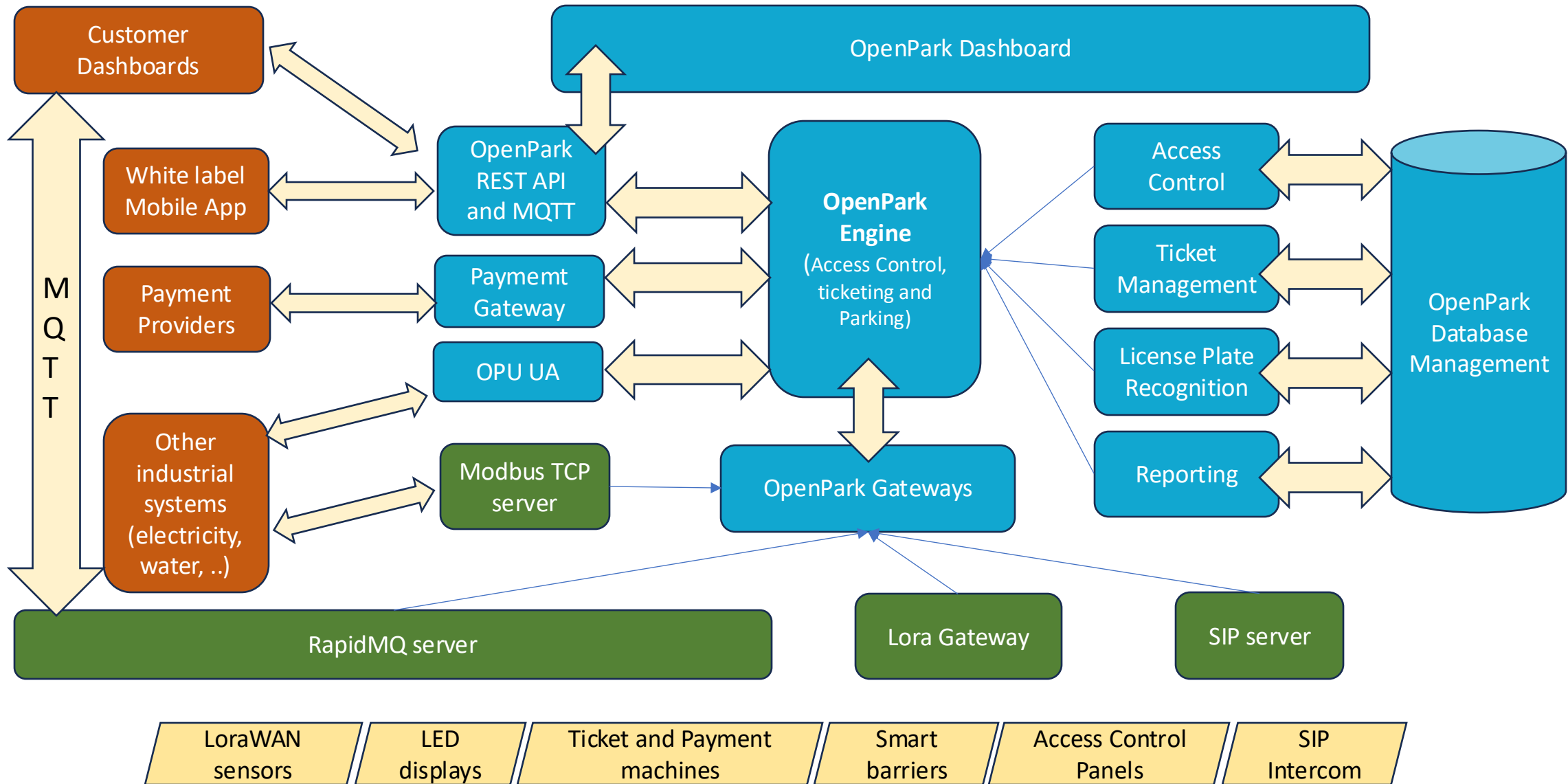


ERP systems interaction (REST API implemented with SAP and Infor)



Payment gateways integration (Google Pay- Apple Pay- Fawry –efinance- Master-VISA)

# OpenPark Software Architecture



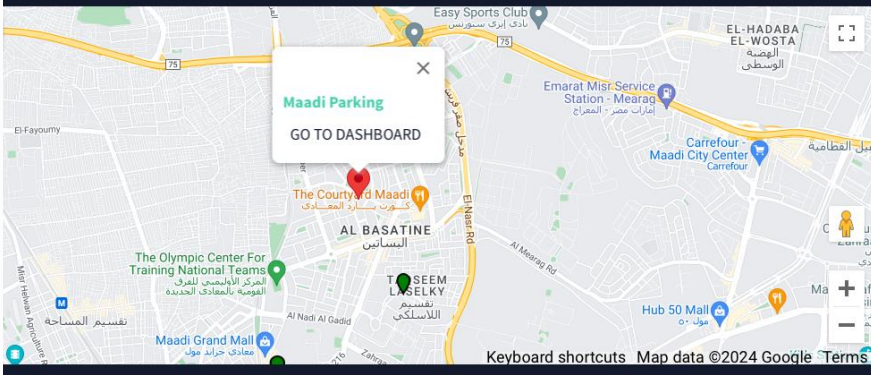
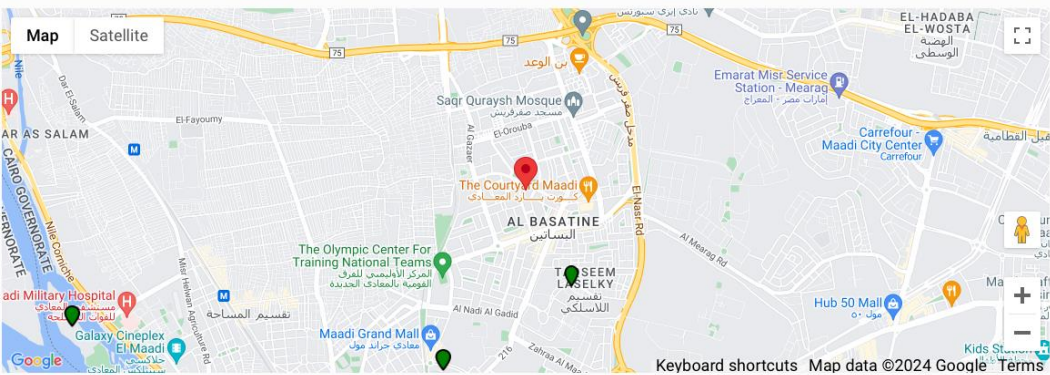
# OpenPark Management Software



GATE DASHBOARD

SINGLE GATE

DUAL GATES



- Select Company: Maadi Parking
- Entry Gate: [Dropdown]
- Exit Gate: [Dropdown]
- Test-7 (ES-2354352154) [Settings]
- Test-8 (ES-23543521774) [Settings]
- test-4 (tes-23432) [Settings]
- Test-5 [Dropdown]

**ES-23543521774**

Last Sync [Refresh] Status [X] Last Power [Power]

[Toggle] [Barrier Icon]

RFID: [Signal Icon] [QR Code]

**ES-2354352154**

Last Sync [Refresh] Status [X] Last Power [Power]

[Toggle] [Barrier Icon]

RFID: [Signal Icon] [QR Code]

# OpenPark POS



This screenshot shows the 'CASHIER' interface of the OpenPark POS system. The top navigation bar includes 'Home Page', 'Live Monitor', 'Access Control', 'Reporting', 'Point Of Sale', and 'Configuration'. The main area features an 'ID' input field on the left and a payment section on the right. The payment section displays 'Fees: 0' and 'Remaining: 0', with a 'Cash' input field. Below this is a numeric keypad with buttons for digits 1-9, 0, 'CLEAR', and 'ESC'. The OpenPark logo is visible in the top right corner.

This screenshot shows a modal window titled 'Select Vehicle type' from the OpenPark POS system. The modal contains a list of vehicle categories in Arabic: 'ملاكي' (Private), 'نقل' (Transport), 'نصف نقل' (Half Transport), 'كونتينر 20 قدم' (20ft Container), 'كونتينر 40 قدم' (40ft Container), 'تحميل او تفريغ كونتينر 20 قدم' (Load/Unload 20ft Container), 'تحميل او تفريغ كونتينر 40 قدم' (Load/Unload 40ft Container), and 'تحميل او تفريغ سيارة نقل' (Load/Unload Transport Vehicle). The OpenPark logo and navigation links are visible at the top.

This screenshot shows the 'TICKETS SALE' interface of the OpenPark POS system. The top navigation bar includes 'Home Page', 'Live Monitor', 'Access Control', 'Reporting', 'Point Of Sale', 'Configuration', and 'Parking Guidance'. The main area features a 'Company' dropdown menu set to 'Maadi Parking', a 'Gate' dropdown menu set to 'Entry Gate', and a 'Ticket' dropdown menu set to 'Parking'. To the right, a large green panel displays 'Fees' and a large '30' with a 'PAY' button below it. The OpenPark logo is visible in the top left corner.

# OpenPark Reporting Module



OPEN PARK

Home Page Live Monitor Access Control **Reporting** Point Of Sale Configuration

LPR REPORT DAILY SHIFT REPORT GATE CONNECTIVITY REPORT USER WALLET ACTIVITY REPORT PARKING WALLET ACTIVITY REPORT GATE TRANSACTIONS LOG

From Date: 04/01/2019 07:04 PM

Company: Princess Nourah Bint Abdul Rah...

SEARCH

COLUMNS FILTERS DENSITY EXPORT

Plate No.	Transaction Date	Payment Method	Car Type
581 يرو	29/11/2021 12:18:28		
578 لب	29/11/2021 12:17:17		
417 ص ص س	07/12/2021 12:10:21		

Captured By  
OpenPark Technologies  
2023.03.21 17:11:58

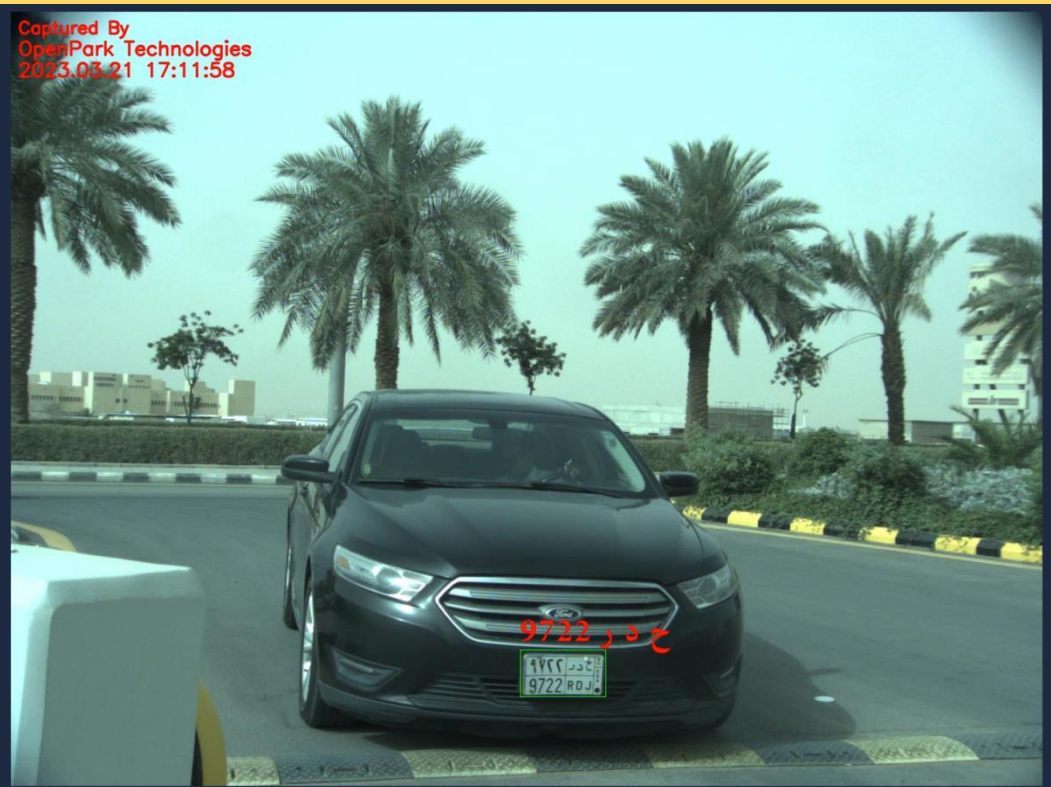


Plate Number

N1: 9 N2: 7 N3: 2 N4: 2 C1: ر C2: د C3: ح

UPDATE

Plate No.	Trans
581 يرو	29/11
578 لب	29/11
417 ص ص س	07/12
9722 ح در	08/03
9722 ح در	08/03
9722 ح در	21/03
2764 ح م و	21/03
2508 د س ل	21/03
1700 ب ل ع	21/03

Edit

EDIT PLATE

EDIT PLATE

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EDIT PLATE

# OpenPark Wallet Management



Home Page Live Monitor Access Control Reporting Point Of Sale Configuration

LPR REPORT DAILY SHIFT REPORT GATE CONNECTIVITY REPORT USER WALLET ACTIVITY REPORT PARKING WALLET ACTIVITY REPORT GATE TRANSACTIONS LOG

From Date: 04/01/2024 07:09 PM To Date: 04/01/2024 07:09 PM

Member

- wae
- 2001001223500 | wael Moustafa
- 20620224988 | - -
- 36702175650 | Wael Hossam
- 200201026405891 | Wael Hossam

Home Page Live Monitor Access Control Reporting Point Of Sale Configuration

LPR REPORT DAILY SHIFT REPORT GATE CONNECTIVITY REPORT USER WALLET ACTIVITY REPORT PARKING WALLET ACTIVITY REPORT GATE TRANSACTIONS LOG

From Date: 04/01/2024 07:09 PM To Date: 04/01/2024 07:09 PM

Member

2001001223500 | wael Moustafa

SEARCH

Transaction Date	Balance	Amount	Status	Description
21/11/2023	4888.5	0.5	OUT	Deducting wallet with amount 0.5 EGP for SMS fees for invitation.
21/11/2023	4889	25	OUT	Parking fees for Cairo Festival City
20/11/2023	4914	25	OUT	Parking fees for Cairo Festival City
20/11/2023	4939	25	OUT	Parking fees for Cairo Festival City
07/11/2023	4964	36	OUT	Parking fees for Chillout Dokki

## Daily Shift Report

Operator : Operator-Gate1

Printing Time : 17:56:10 2024-07-02

Total Collected : 100010

Total No. of Cars : 721

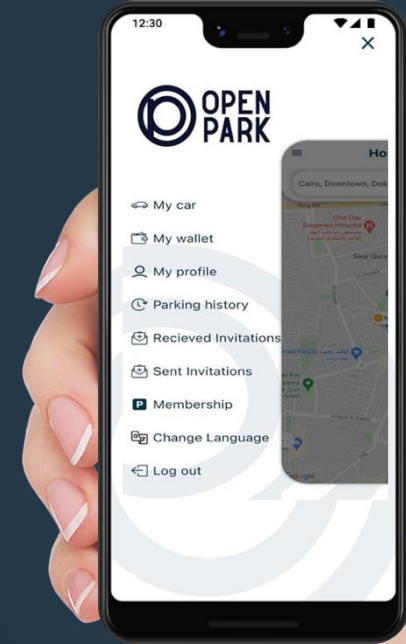
Ticket No.	Entry Time	Exit Time	Type	Amount	Discount	Gate
21202461880351	18/06/2024 00:00:11	18/06/2024 01:42:42	Guest	130		Terminal2
21202461865783	18/06/2024 00:03:16	18/06/2024 03:40:04	Guest	190		Terminal2
21202461840185	18/06/2024 00:03:44	18/06/2024 01:43:54	Guest	130		Terminal2
21202461860846	18/06/2024 00:03:59	18/06/2024 00:36:47	Guest	100		Terminal2
2120246181427	18/06/2024 00:04:29	18/06/2024 03:05:02	Guest	160		Terminal2
21202461899669	18/06/2024 00:05:06	18/06/2024 03:48:05	Guest	190		Terminal2
212024618179210	18/06/2024 00:05:20	18/06/2024 03:48:48	Guest	190		Terminal2
212024618902711	18/06/2024 00:05:36	18/06/2024 01:51:35	Guest	130		Terminal2
212024618709512	18/06/2024 00:05:56	18/06/2024 01:54:31	Guest	130		Terminal2
4120246186341	18/06/2024 00:06:01	18/06/2024 02:18:33	Guest	160		Terminal1
41202461816882	18/06/2024 00:07:54	18/06/2024 00:54:27	Guest	100		Terminal1
212024618947716	18/06/2024 00:07:55	18/06/2024 01:32:19	Guest	130		Terminal2
21202461862717	18/06/2024 00:08:32	18/06/2024 02:28:53	Guest	160		Terminal2



# Products (3/3)

## OpenPark Mobile App

### OpenPark Mobile companion



**Register first time** with mobile number to receive an OTP SMS then stay logged in.



**Main menu** includes profile update, last parking location, search for parking space, memberships, invitations & more.



**Search** for parking space.

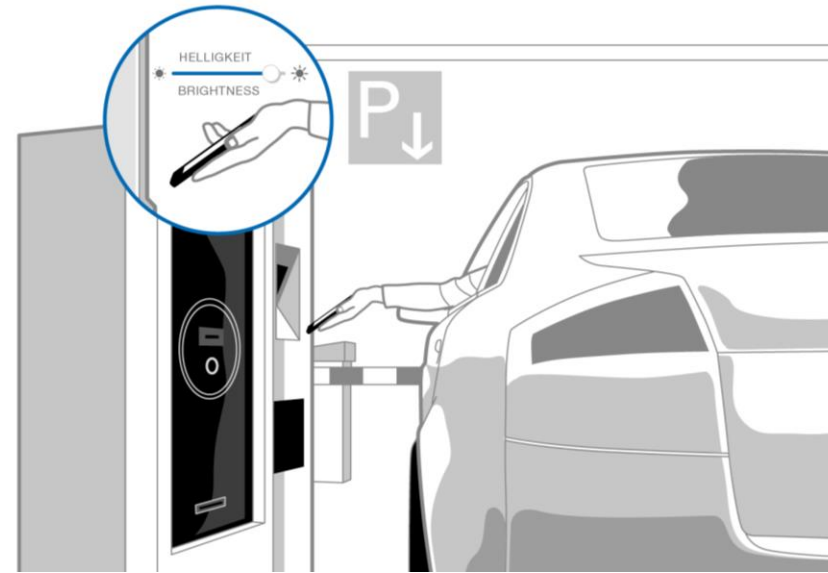


**Navigate in App** on or Google Map.

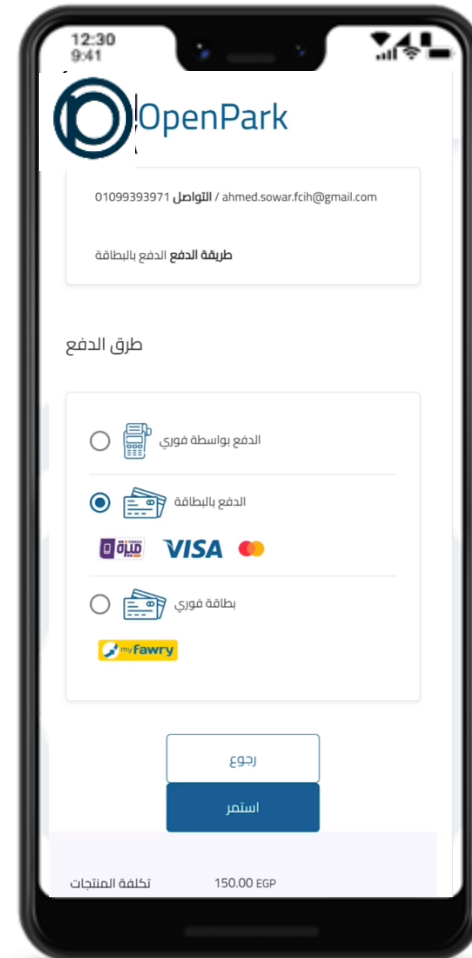
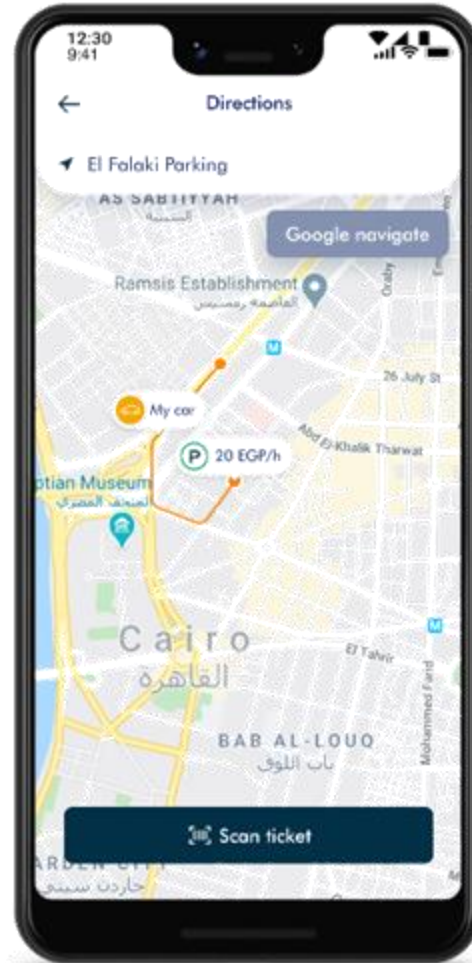
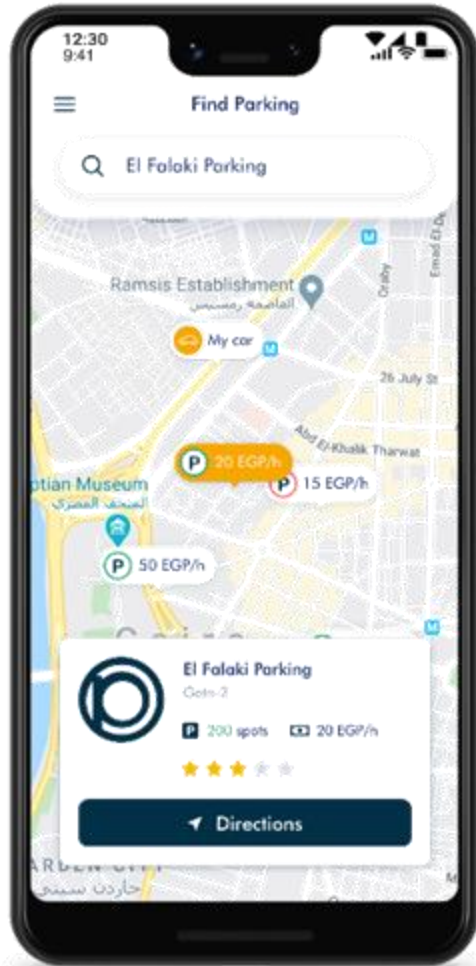


# Entry and Exit scenarios

- Regular ticket entry
- Mobile App entry
- Contact-less card entry
- QR code pass entry
- Intercom entry
- LPR camera entry
- Long range RFID entry



# White label mobile App



# OpenPark Main Advantages



1- All OpenPark devices are IoT compliant out of the box.



2- Payment gateways integrated in our mobile app and on self-service pay stations out of the box



3- ANPR software module on camera or on server works with any CCTV camera.



4- The ticket issuing and accounting and wallet are all integrated in our API.

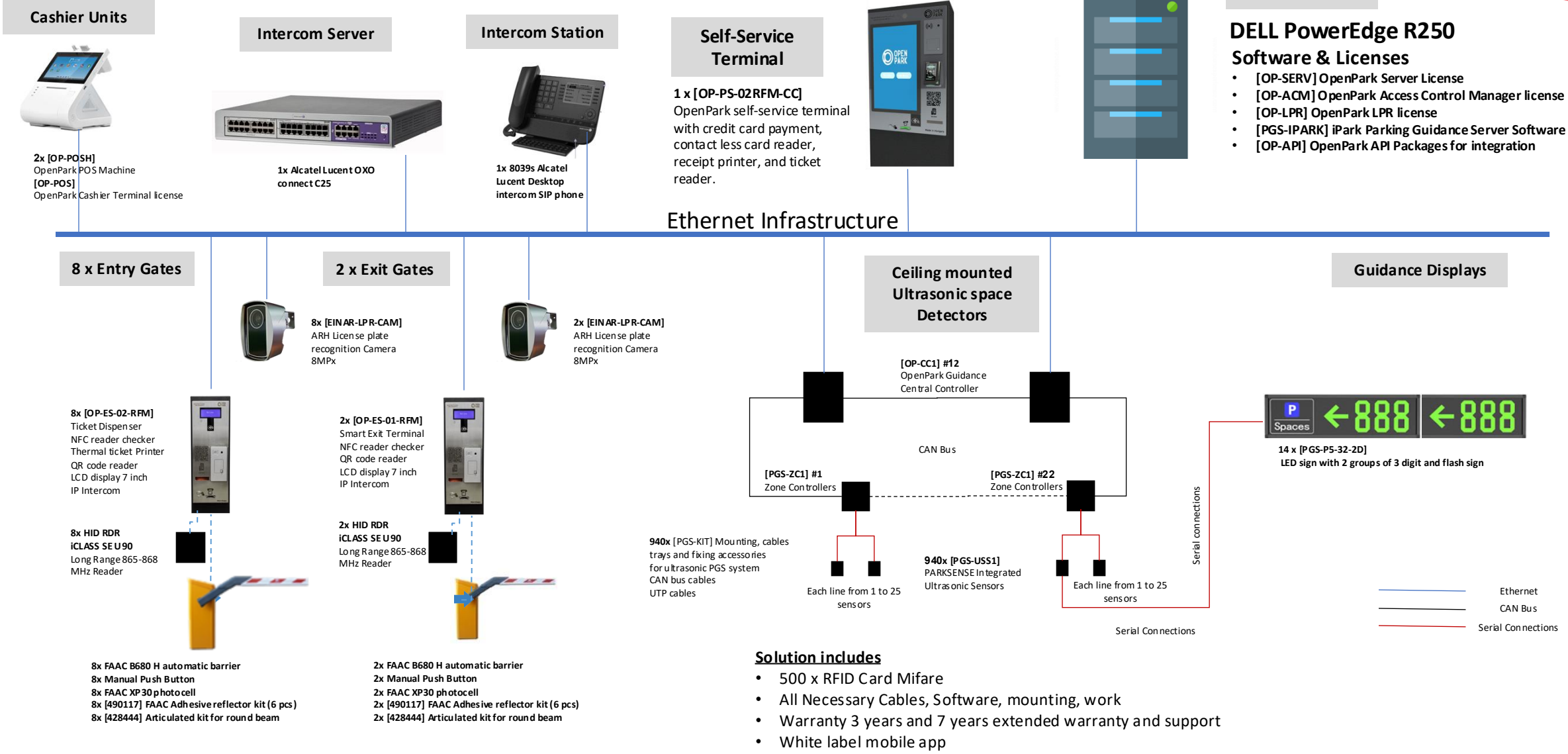


5- Our LoraWAN sensors can cover on-street parking spaces without power or network infrastructure.



6- Mobile application for searching available spaces, sign-in and sign-out, wallet management, navigation to parking place.

# Golden Gates Parking Solution Layout Summary



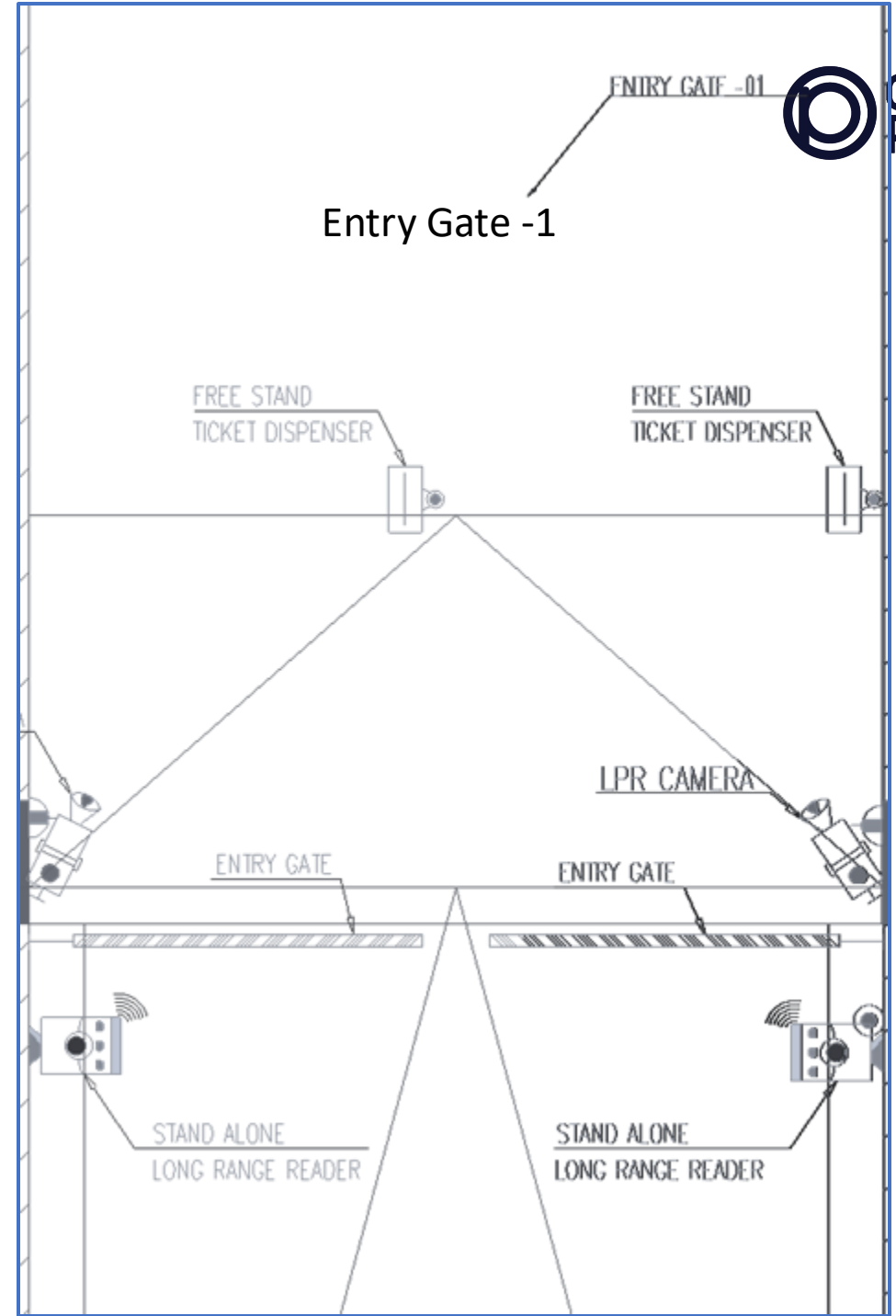
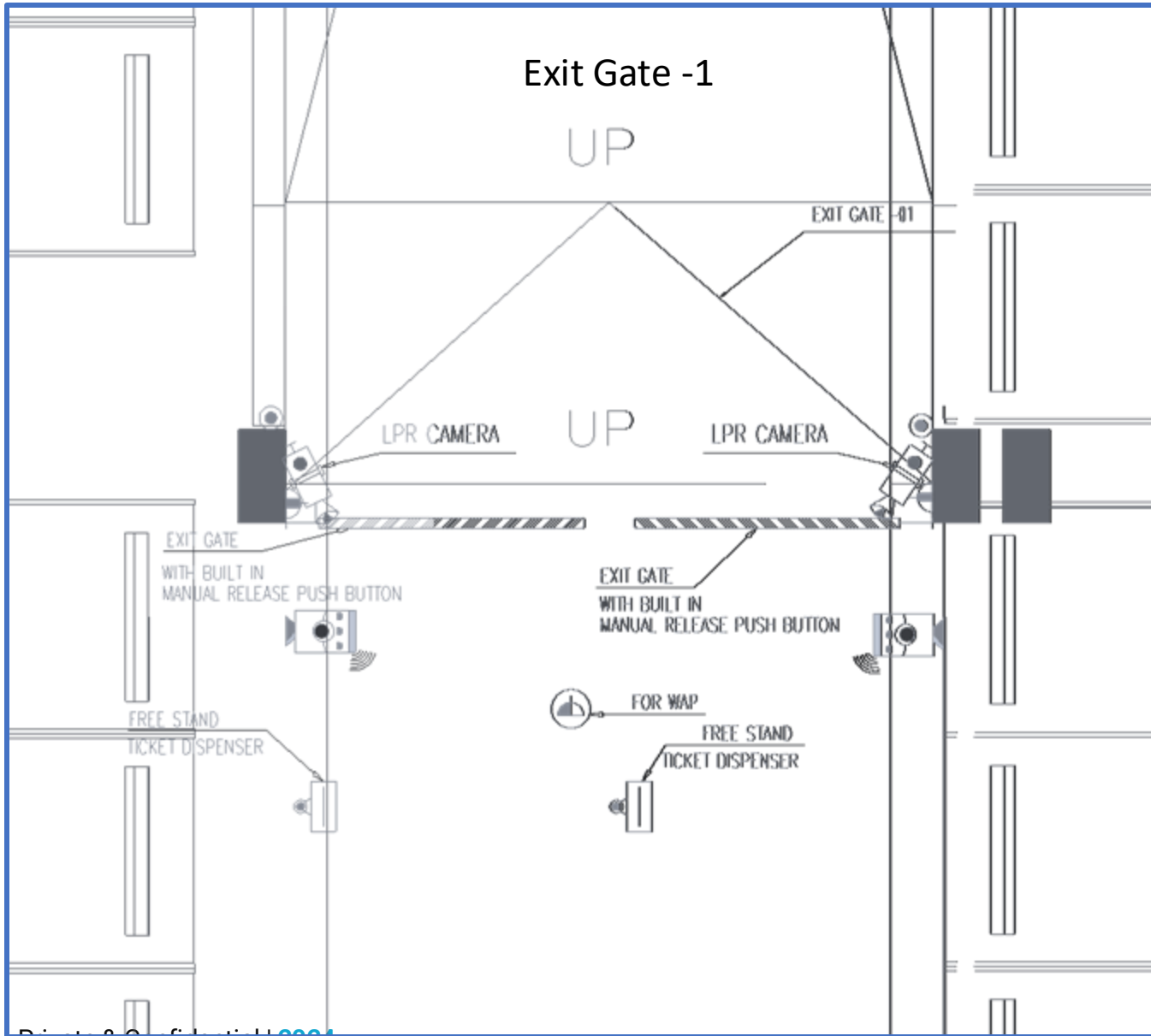
**Solution includes**

- 500 x RFID Card Mifare
- All Necessary Cables, Software, mounting, work
- Warranty 3 years and 7 years extended warranty and support
- White label mobile app

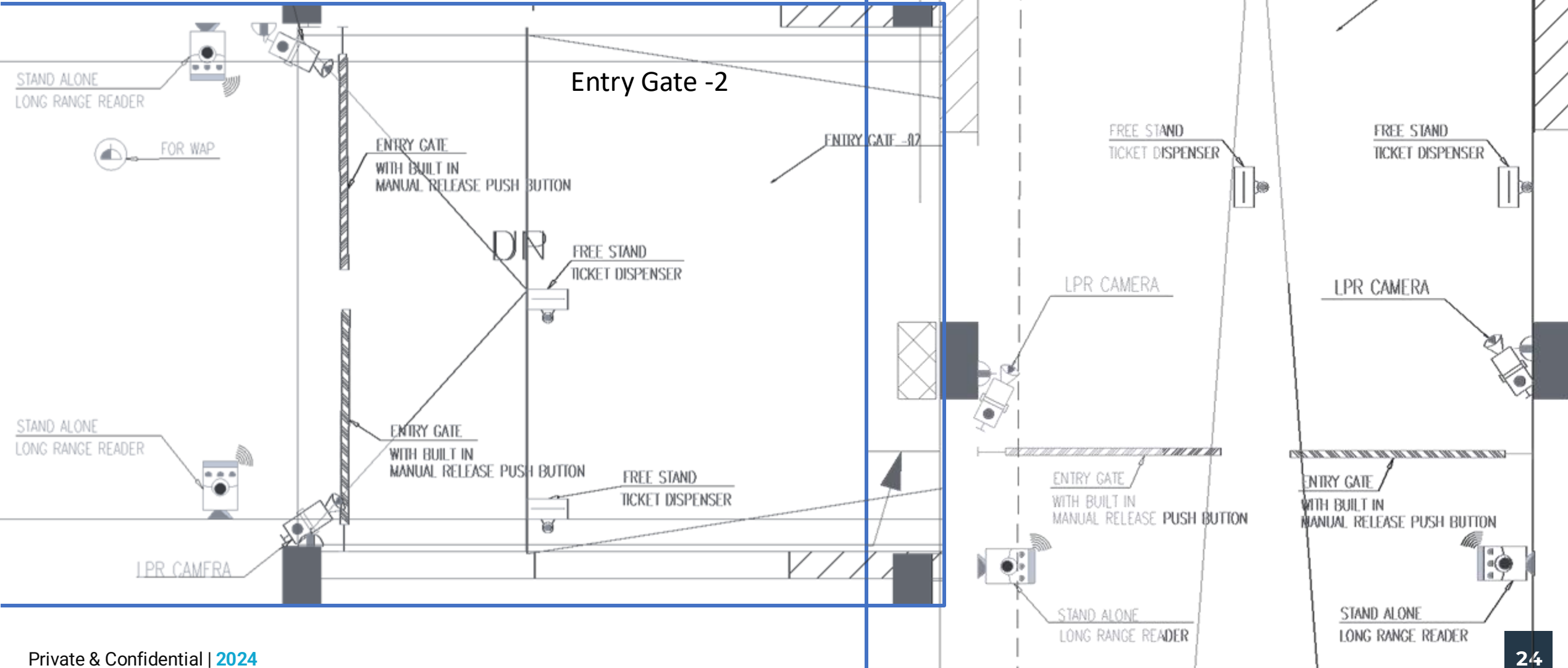
# Golden Gates Parking Advantages

- ✓ Display **real-time parking availability** data at key entry points and throughout the basement.
- ✓ Allow users to view real-time parking availability on mobile app before coming.
- ✓ Entry and Exit **Automation (mobile app entry, event tickets, LPR, RFID and NFC cards).**
- ✓ **Dynamic Pricing.**
- ✓ Electronic payments
- ✓ **Scalability & Integration** with the central smart complex management platform and integration with ERP systems.
- ✓ **Real-time Revenue Control** System.
- ✓ **Robust Security** Measures.
- ✓ **Electronic vouchers** can be issued by tenants to offer free parking

# Typical gate configuration



# Typical gate configuration





## OpenPark server license with plug-ins for:

- Access control
- License plate recognition
- Ticket management
- Payment cashier interface with POS credit card integration
- Financial reporting
- API integration for third party mobile apps and IOT dashboards

9. License			
◆	[OP-EGC-02] OpenPark Gateway	[OP-EGC-02] OpenPark Gateway OpenPark Industrial Gate Controller with Intel CPU, 128GB SSD, with GPU for License Plate Recognition algorithm to host the OP-CTL / OP-LPR / OP-ACM	6
◆	[OP-CTL] OpenPark controller License	[OP-CTL] OpenPark controller License OpenPark server software with integrated Database to manage access control on gates including administration module, reporting module, financial module and live monitoring module	6
◆	[OP-ACM] OpenPark Access Control Manager ...	[OP-ACM] OpenPark Access Control Manager license OpenPark ACM includes remote management and configuration of OpenPark entry terminals, exit terminals and door access control panels. License is required per terminal or panel	12
◆	[OP-LPR] OpenPark LPR license	[OP-LPR] OpenPark LPR license License plate recognition license per camera, requires OpenPark server license	12

# Payment terminals



## Payment terminals

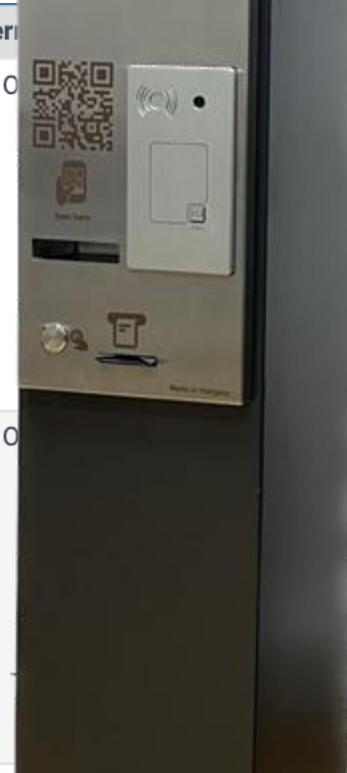
- Automatic self-service payment for credit card acceptance
- Manual cashier terminal with QR code reader, receipt printer, NFC card reader and cash drawer
- Lost ticket function on both terminals

3. Automatic Payment Machines (Cashless)		
<p>◆ [OP-PS-01RFM-CC] OpenPark self service Pay-s...</p>	<p>[OP-PS-01RFM-CC] OpenPark self service Pay-station                  [OP-PS-01RFM-CC] OpenPark self service Pay-station                  Open Park Pay-on-foot self-service payment kiosk including Credit card contact and contact less card reader, receipt printer, and ticket reader (No cash collector)</p>	6
<p>◆ [OP-PS-02RFM-CC] OpenPark self-service termi...</p>	<p>[OP-PS-02RFM-CC] OpenPark self-service terminal with credit card payment terminal with integrated Credit card contact and contact less card reader, receipt printer, and ticket reader. Cash-collector / recycler is included for one currency to be specified at order time</p>	
4. Cashier Terminal (Optional)		
<p>◆ [OP-POSH] OpenPark POS Machine</p>	<p>[OP-POSH] OpenPark POS Machine                  All in one POS machine with:                  - 15" resistive touch, water proof                  - 2D barcode scanner                  - LCD POLE DISPLAY 2*20 CHAR., USB INTERFACE                  - Cash drawer                  - Receipt printer                  - Desktop RFID card reader</p>	
	<p>[OP-POS] OpenPark POS                  OpenPark Point of Sale activation license including customizable ticket rates, coupon redemption, loyalty programs and more</p>	



# Entry and Exit Control

- **Integrated Access Terminal**
- Mifare RFID (13.5MHz), DESfire EV-2, EV2, EV3
- QR code scanning.
- Mobile app control
- SIP Intercom
- Remote open by operator
- Online and offline operation
- Ethernet port, WiFi, RS-232, RS-485
- Integrated loop detector
- Wiegand and OSDP for external RFID readers
- Battery backup for real-time clock.
- Operating temp -10 deg C to 70 deg C
- IP65 outdoor protected housing
- For ticket dispenser models:
  - Ticket printer ISO card size thermal tickets
  - Optional paper roll
  - Ticket bay for up to 5000 tickets
  - Ticket bay sensor

<ul style="list-style-type: none"> <li>5. Entry / Exit Terminal</li> <li>[OP-ES-02-RFM] OpenPark Ticket Dispenser</li> <li>[OP-ES-01-RFM] OpenPark Smart Gate Terminal</li> </ul>		<p>[OP-ES-02-RFM] OpenPark Ticket Dispenser OpenPark entry terminal including RFID reader checker and thermal ticket printer QR code reader, LCD display with the following interfaces for connecting gate peripherals:</p> <ul style="list-style-type: none"> <li>- 2 x RS-232/RS-485 serial interface</li> <li>- 10/100/1000 Mbps Ethernet interface</li> <li>- Digital inputs: 8</li> <li>- Relay outputs: 4</li> </ul>	6
		<p>[OP-ES-01-RFM] OpenPark Smart Gate Terminal OpenPark smart terminal including RFID reader checker, QR code reader, LCD display with the following interfaces for connecting gate peripherals:</p> <ul style="list-style-type: none"> <li>- 2 x RS-232/RS-485 serial interface</li> <li>- 10/100/1000 Mbps Ethernet interface</li> <li>- Digital inputs: 8</li> <li>- Relay outputs: 4</li> </ul>	6

# Entry and Exit barriers



Item	FAAC 680B	Magnetic Access Pro
Motor	Hydraulic	MHTM™ drive
Boom Specification	2 – 8 m	3.5 m up to 6 m
Protection	IP44	IP54
Opening	1,5 s (up to 2m) – 6 s (up to 8m)	1.3 s (up to 3.5m), 4 s (up to 6m for Access Pro L)
Duty Cycle	100%	100%
MTBF	2 million Cycle	10 million Cycle
Certification	comply	comply
Operating Temperature	-20°C – +55°C	-30 to +55 °C

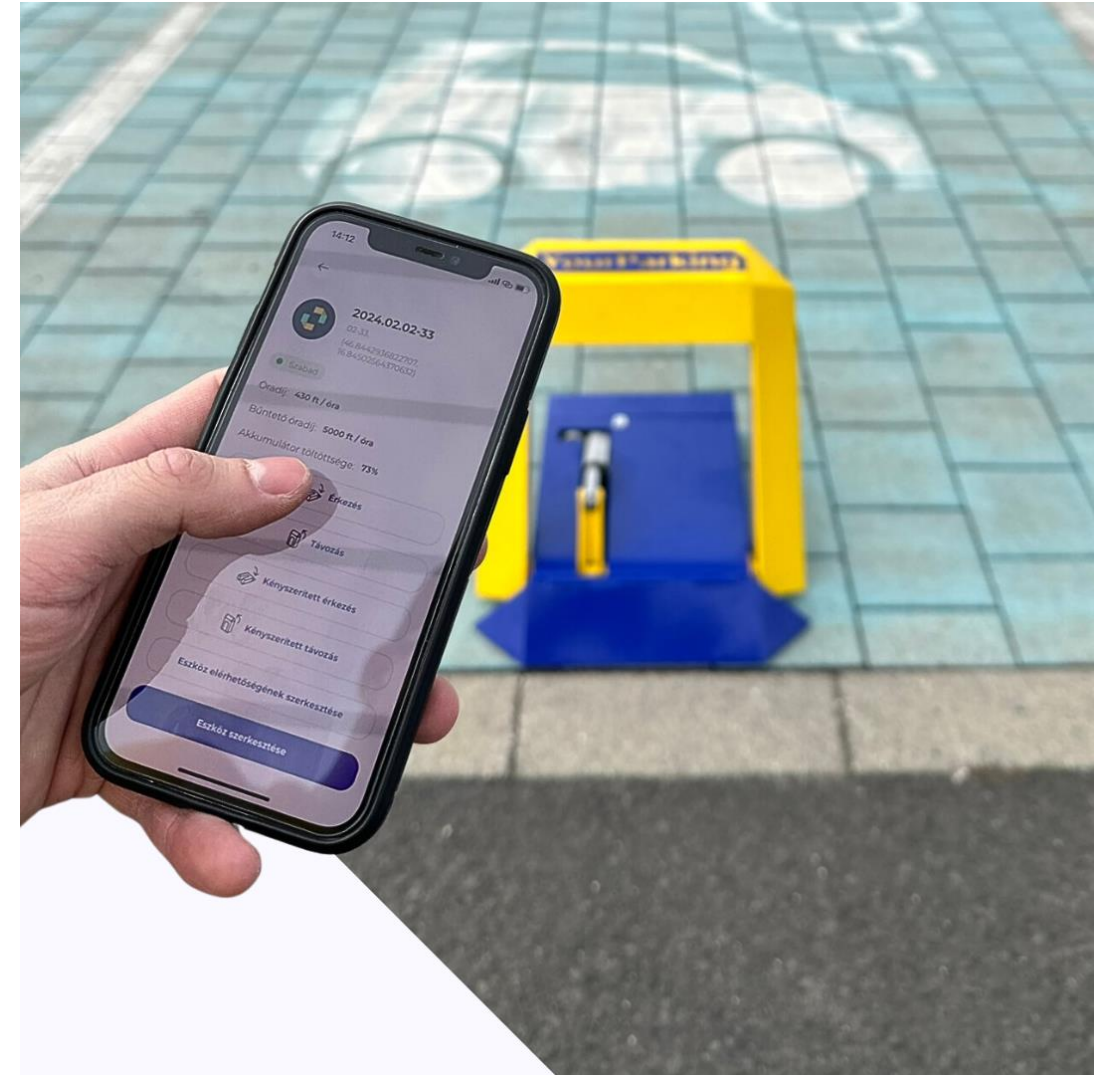


- Electromechanical or Hydraulic Arm Barrier designed for high flow traffic
- **OpenPark Smart controller IoT enabled**
- **Integrate with IOT platform directly**

# Single spot VIP barriers



- Colour: Yellow Arm + Black/Red Base (custom colour is acceptable)
  - Control Type: Remote Controlled ( $\leq 50$  meters), Bluetooth through App control
  - Battery Type: Rechargeable Battery / Dry Battery
  - Battery Working Time on one charge: 6-8 Month
  - Material: Quality Steel + UV Resistant Powder Coating
  - Rising Height: 380mm
  - Dimension: 490x470x500mm
  - Weight: 8KGS
  - Protection Grade: IP67
  - Feature: 3 Points Blocking, Strongest Protection to Parking Space
- **OpenPark Smart controller IoT enabled**
  - **Integrate with IOT platform directly**



# LoraWAN Parking sensors



Magnetic sensor  
Model OP-WMS-01

Power supply	5 years battery
Operating Temperature	-40 to 85 C
Protection level	IP68
Detection range	90 cm
Response time	6 seconds
Communication	Bluetooth
Dimensions	173mm diameter, 35mm height

# Self-service Payment terminals





- OpenPark POS Software IoT enabled
- Integrate with IOT platform directly
- Integrated “Find My Car” function
- Integrated bank certified credit card terminal
- Integrated SIP based Intercom module
- QR code scanner
- Contactless cards support
- Optional cash recycler for acceptance and change return



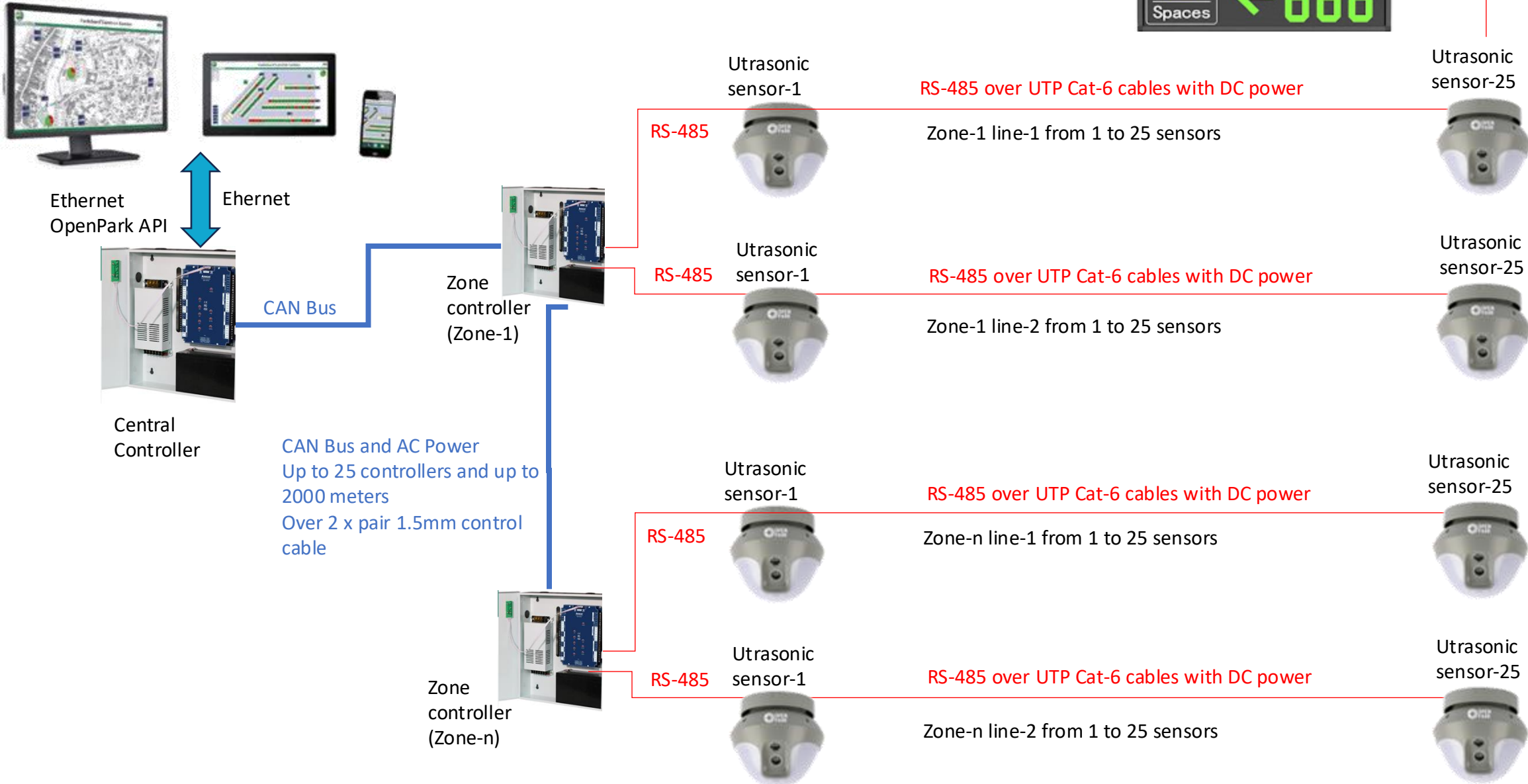
# Ticketing and pedestrian access

- Multi-technology reader supports QR code scanning and Mifare/Desfire cards and monitor the status of the gate open and close status and can command opening and closing
- Ticket issuing is part of standard base server module
- Access control module can verify valid tickets when scanned at the (ES-03) or (ES-04) readers.
- Online/offline operation modes
- **OpenPark reader integrates with COC directly**

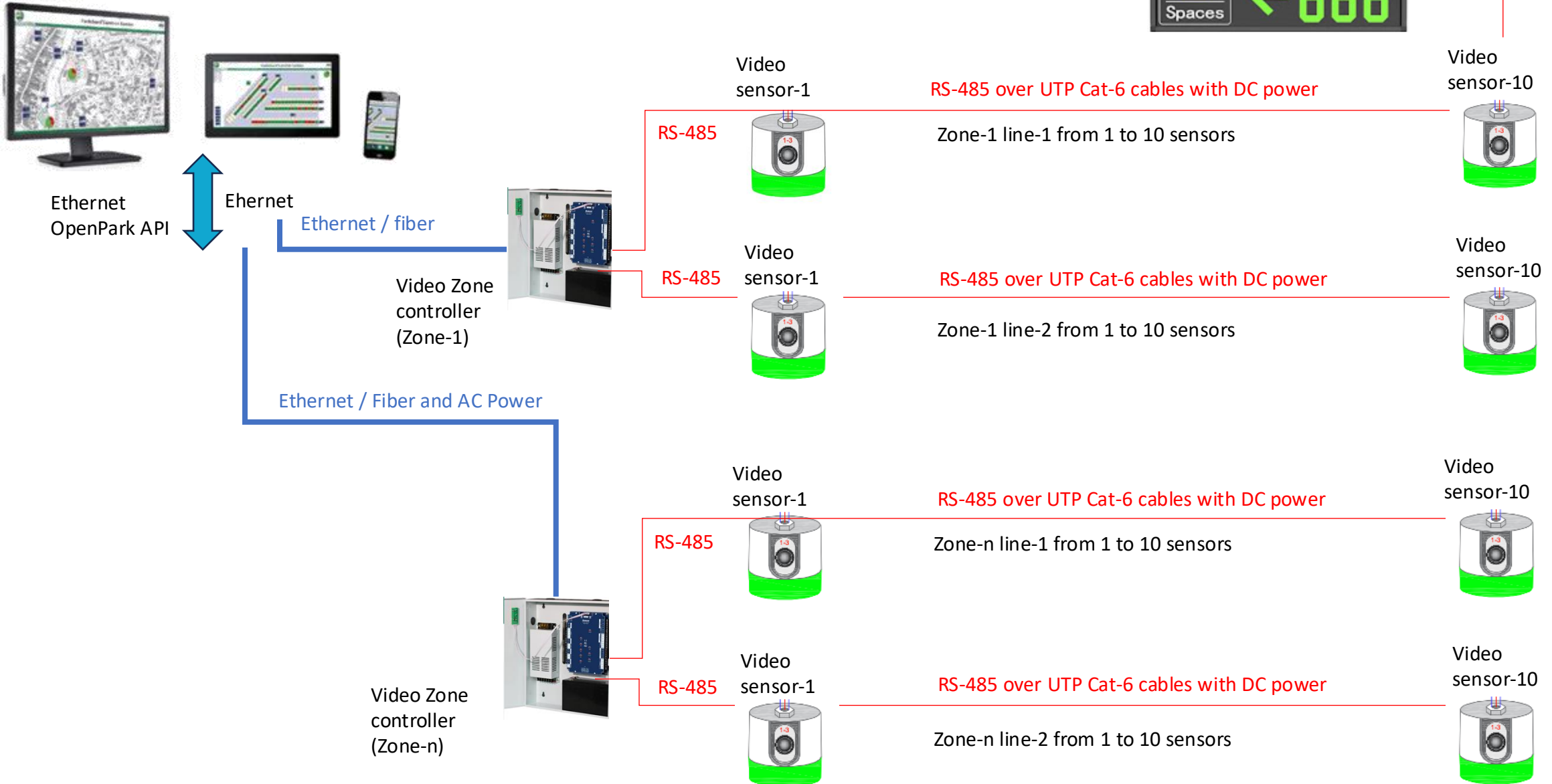
Pedestrian Access Control		
◆ [ES-03-1D] OpenPark Multi-technology Reader	[ES-03-1D] OpenPark Multi-technology Reader Access control reader/controller with LCD display with the following interfaces for connecting gate/door peripherals: - 1 x RS-232/RS-485 serial interface - 10/100/1000 Mbps Ethernet interface - Integrated RFID reader (Mifare) - QR code scanner - Digital inputs: 4 - Relay outputs: 2 Optional mounting kit for turnstile, wall and floor standing	3
		
◆ [DS-Q10] Daosafe Tripod turnstile 2-way	[DS-Q10] Daosafe Tripod turnstile 2-way Full Stainless Steel, Indoor / Outdoor IP65 rating Single / Bi-directional, 1400 x 120 x 978mm Pass width : 550mm MCBF 10 Million Cycle Flow Rate : 40 people per minute Emergency : Arms will drop down automatically communication : Dry contact, Relay signal, RS485 Integrated entry and exit RFID readers with access control	3
		



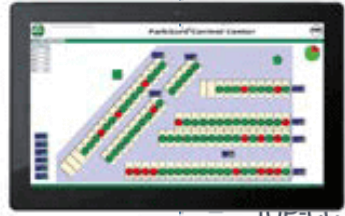
# Parking Guidance system Architecture



# Video Parking Guidance Architecture



# Parking Guidance system



- Parking availability to be provided through Open API for desktop and mobile users.
- Front mount dual RJ-45 sensor saves a lot on the installation cost and infrastructure
- **OpenPark Gateway integrate with IOT platform directly**

<h3>6. Parking Guidance</h3>		
<p>◆ [PGS-IPARK] iPark Parking Guidance Server Sof...</p>	<p>[PGS-IPARK] iPark Parking Guidance Server Software iPark Parking Guidance Software to monitor the the Parking Guidance system including sensors, LED indicators for each spot, LED guidance displays indoor and outdoor. (Server hardware not included)</p>	1
<p>◆ [OP-CC1] Op-... Guidance Central controller</p>	<p>[OP-CC1] OpenPark Guidance Central controller OpenPark central controller to consolidate all data from Node controllers or Zone controllers and relay them to the main iPark server</p>	6
<p>◆ [PGS-ZC1] OpenPark zone controller</p>	<p>[PGS-ZC1] OpenPark zone controller OpenPark zone controller for 60 spots providing power and data communication over UTP cable interface and connect to a sensor bus in daisy chain using the standard network cables</p>	18
<p>◆ [PGS-USS1] PARKSENSE Integrated Ultrasonic ...</p>	<p>[PGS-USS1] PARKSENSE Integrated Ultrasonic Sensor PARKSENSE Integrated Ultrasonic Sensor and RGB led indicator for the detection and indication of the occupancy status of the parking space. High brightness RGB led indicator.</p>	900
<h3>7. Display Message Parking</h3>		
<p>◆ PGS-P5-32-0</p>	<p>PGS-P5-32-0 LED sign single direction Parking LED display with Ethernet interface, pitch 10 mm and viewing area 640 mm x 640 mm</p>	6



# Project References Case studies



# Case study Suez Canal Tunnels – SCADA



## End User: Suez Canal Authority

Scope of work: Design, Installation, Testing & Commissioning of the integrated tunnel management system

## Project date: 2018-2020

## Project components:

- Detailed design and installation for network infrastructure, PLC control solution, ventilation control sensors, emergency telephone system, linear heat detection system, AID and traffic control system
- Servers at East and West control buildings
- License plate recognition system for both Port Said and Ismailia tunnels for statistics and speed limit violation detection.



# Case study El Salam Bus Terminal

## End User: Cairo Governorate

Scope of work: Requirement analysis, design, tendering support, implementation supervision and training.

Project date: 2017

## Project components:

- Requirements analysis, concept of operation and tender document preparation
- Detailed design for the infrastructure including power supply and distribution, data communication, telephone system and public address cabling.
- Shop drawings for CCTV, public address, access control, main gates access and ticketing system
- Control room design including Servers and videowall
- License plate recognition system
- Digital signage system for passenger information
- Traffic intersection management in the surrounding streets including Red light violation system using Swarco and FLIR products



# Reference profile **Central Bus station**



## **End User: Military Engineering Authority**

Scope of work: Supply, Installation, Testing & Commissioning of the Parking Management and Guidance system for Central Bus station

**Project date: 2023-2024**

## **Infrastructure sizing in numbers:**

- Parking sensors/indicators: 4500 spots+
- Gate barriers : 42 barriers for bus and car gates
- LPR: 35 license plate cameras
- Ticket dispensers/readers : 26
- LED Guidance displays: 100+



# Case study Sharm smart parking

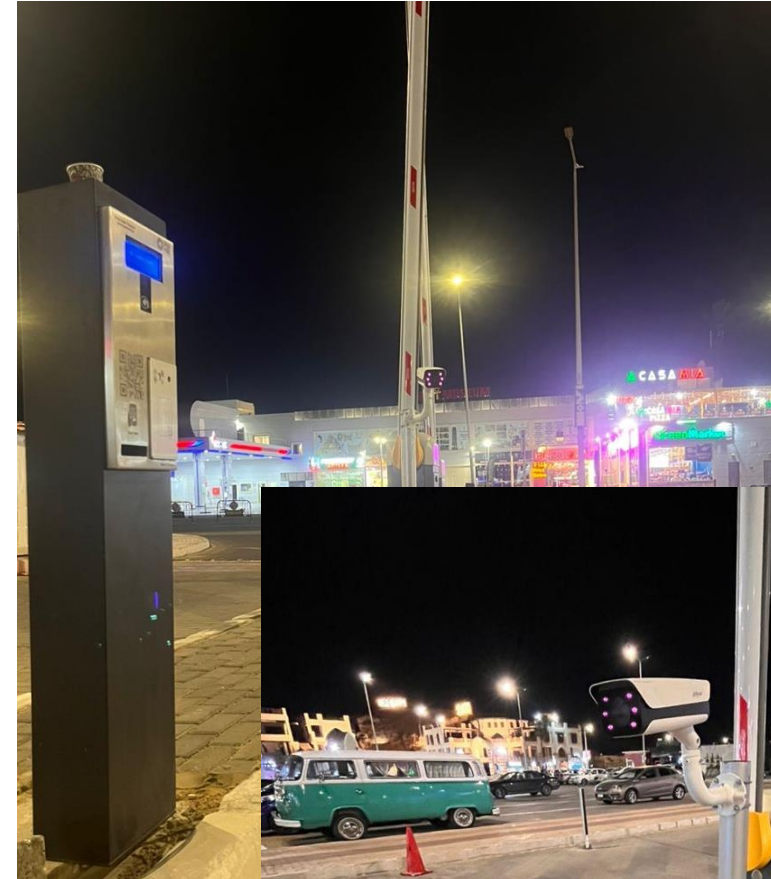
## End User: efinance (South Sinai Governorate)

Scope of work: Design and build of smart parking facility including traffic modelling, civil works and smart ticketing

## Project date: 2022

## Project components:

- Traffic and analysis report
- Traffic engineering and route planning
- Infrastructure design documents
- Bill of Material generation and procurement
- Material delivery and implementation including 2 main gates with ticket-less cash less machines
- License plate cameras for vehicle registration
- Bus subscription and passenger car hourly accounting
- Central cashier solution





# Smart solutions Major references in the ME



- Egypt New Capital central bus station
- Suez Canal Tunnels in Port Said (MEP control systems)
- Sharm El-Sheikh smart parking with efinance 2022
- Marassi North Coast Parking – 2022
- ZED towers gate and parking – 2022 - 2023
- Mall of Arabia - 2020
- Badya smart community Access - 2021
- Marakez Aeon Towers, District5 Mall – 2021-2022
- Riyadh Tech incubation center
- Mall of Africa – Zambia
- Alamein Latin District



# Thank you



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