MOBILITY SOLUTIONS

VEHICLE / PEOPLE MOBILITY

PARCX
TECHNOLOGY

PARCX is a leading provider of comprehensive mobility solutions.

Our range of software and hardware technologies are designed, developed and manufactured to uniquely offer unparalleled levels of flexibility in selecting and integrating a complete vehicle access and people mobility solutions that are scalable to accommodate single to multi-location setups.

To build on the modular advantages of the complete PARCX solution, third party products can also be integrated to provide clients with full control of their required product solution.

We also provide complete bespoke solutions as an OEM manufacturer. Using the PARCX platform, clients can also integrate services such as mobile payment apps or external reservation systems, content management systems, management information systems, CRM, ERP or Business Intelligence.

Mobility Solutions

- Vehicle Access
- People Mobility
- Specialized Technology
- Custom Solutions Development Services
- Hardware and Software Product Range

VEHICLE ACCESS

PARCX solutions and products are designed and developed by experts with over 30 years of experience in Car Parking Management Systems (CPMS) projects in the Gulf region. Our technologies enabling clients to deploy systems from standard CPMS applications to sophisticated and fully customized mobility solutions for the most complex of mixed-use projects.

Key Features

- Designed & Tested for Gulf Environment
- Products made in UAE
- Modular Software Products
- Customizable and Upgradable Software
- Integration with Multiple 3rd Party Devices / Systems
- Cloud Based Options
- Mobile Application Integration
- Validation Options (Offline & Online)

Parking Management

- **TICKETLESS PARKING**
- **TICKETED PARKING**

Vehicle Mobility

- **CONTROLLED PARKING**
- **PARKING RESERVATION**

Parking Management

TICKETLESS PARKING

Our advanced PARCX ticketless solutions include a full suite of products to control and manage car park access and revenue. Our virtual ticketing technologies connect to gate barriers and ANPR cameras, centrally controlled by our PARKPAY software. Payment methods include; Smart Pay Stations, manual cashier, mobile handheld cashier and validation technology for shops and commercial tenants.

Benefits

CLIENTS/OWNERS
- Advanced eco-friendly technology (*virtual ticket*)
- Fully audited solutions
- Modular components
- User-friendly software
- Expandable to multiple locations

CAR PARK OPERATORS
- No moving parts
- Low maintenance
- Reduced operational cost (*virtual ticket*)
- User-friendly software
- Advanced control features allowing car park operator to maximize revenue and enhance the parking experience
- Robust system developed and tested for GCC environment
- Increase capacity and turnover
- Easy management and maintenance

CUSTOMERS
- Fast and seamless access to car park
- No physical ticket required
- Clear information to find parking spots
- Increased security and safety features

Products

LANE EQUIPMENT
- PARCX ANPR SmartBox
- Entry/Exit ANPR Cameras
- X Terminal (*optional*)
- Gate Barrier
- Variable Messaging Signage (VMS)

PAYMENT DEVICES
- Smart Pay Station integrated with ANPR
- Smart Cashless Station integrated with ANPR & Mobile Payment Application
- Manual Cashier Station
- Handheld Mobile Cashier
- Tap & Go Payment at Exit Terminal
- Validation Terminal

SOFTWARE
- PARKPAY
- Cloud SAAS

ENTRY - VIRTUAL TICKET | SMART PAY STATION | EXIT

ANPR

A 1234

OR

QR Code
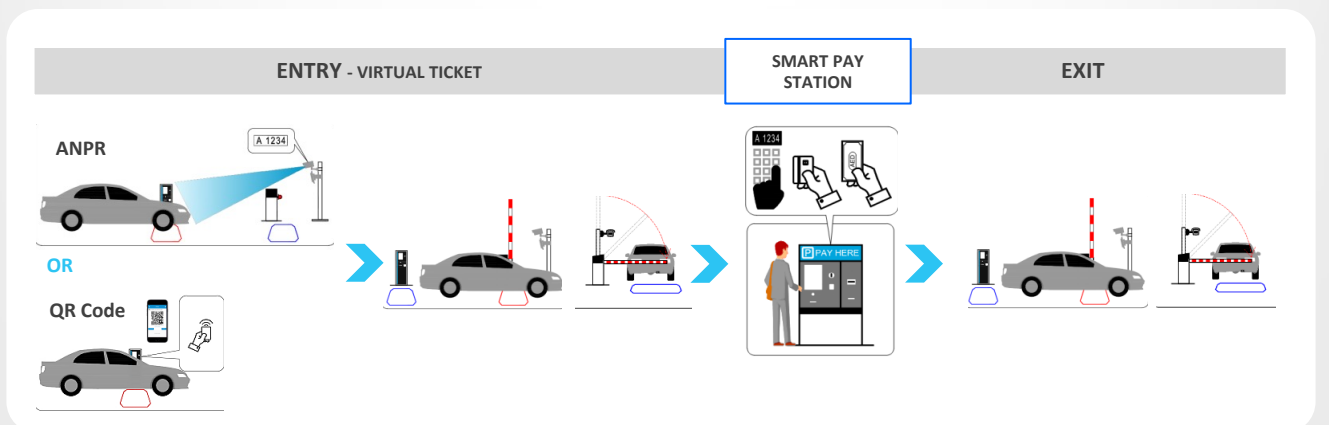
TICKETLESS PARKING Feature Projects

DNATA Cargo Village

DUBAI – UAE

Dubai Airport Freezone is a dynamic business hub located at the very heart of global trade. The client required supply, installation, testing and commissioning a fully automated ticketless car parking management system.

DNATA Cargo Village opted to upgrade, from a ticket-based setup to a fully integrated ticketless parking solution. The site comprised of a total of 15 lanes, including entry, transfer and exit lanes - each equipped for both vehicle and truck access. Additionally, two pay stations were installed for overstay scenarios. The booking and validation of virtual tickets is conducted through the new PARCX solution, which was interfaced with the clients existing Logistic CRM system.

The car park has been operational since June 2019 and covers peak traffic of up to 8,000 vehicles daily.

Salalah Gardens Mall

SALALAH – OMAN

Salalah Gardens Mall is home to leading international retail brands, Carrefour Hyper Market and a 4-star hotel. It is the first and largest modern mall located in downtown Salalah. The client required supply, installation, testing and commissioning a fully automated ticketless car parking management system.

The 300 spaces underground car park was upgraded from a chipcoin system to a PARCX ticketless solution – the first in the Sultanate of Oman. Hosting one entry, fast and cashier exits, the system caters to over 1,000 vehicles at peak times.

Select Projects

- DNATA Cargo Village, Dubai Airport Freezone – Dubai, UAE

- Salalah Gardens Mall – Salalah, Oman

Parking Management

TICKETED PARKING

PARCX offers a full suite of products to control and manage a car park access & revenue, using our standard ticketing entry columns with contactless technology. Our line of products connect to gate barriers and are controlled through the PARKPAY software.

Payment methods include; Smart Pay Stations, manual cashier, mobile handheld cashier and validation technology for shops and commercial tenants.

Benefits

CLIENTS/OWNERS
- Fully audited solutions
- Modular components
- User-friendly software
- Expandable to multiple locations

CAR PARK OPERATORS
- User-friendly software
- Advanced control features allowing car park operator to maximize revenue and enhance the parking experience
- Robust system developed and tested for GCC environment
- Increase capacity and turnover
- Easy management and maintenance

CUSTOMERS
- Ease of use
- Clear information to find parking spots
- Increased security and safety features

## Products

LANE EQUIPMENT
- Entry/Exit Terminal
- ANPR Cameras optional
- Gate Barrier
- Variable Messaging Signage (VMS)

PAYMENT DEVICES
- Smart Pay Station integrated with ANPR
- Smart Cashless Station integrated with ANPR & Mobile Payment Application
- Manual Cashier Station
- Handheld Mobile Cashier
- Tap & Go Payment at Exit Terminal
- Validation Terminal

SOFTWARE
- PARKPAY
- Cloud SAAS

| ENTRY – QR CODE TICKET ISSUED | SMART PAY STATION | EXIT – SCAN QR CODE TICKET |
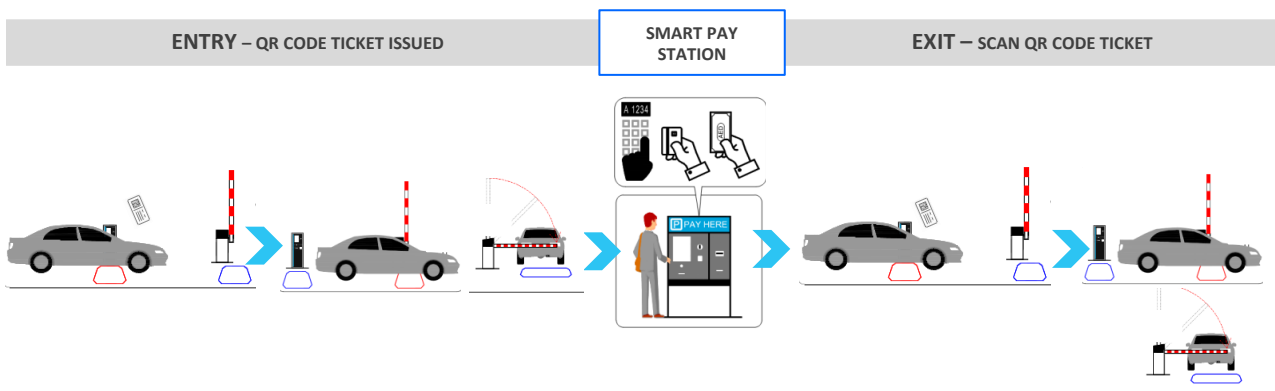
Deira Waterfront Development (Plots 5,7,8)

DUBAI – UAE

Deira is the vibrant cornerstone of Dubai's trading legacy. The client required supply, installation, testing and commissioning a fully automated car parking management system for the three plots.

Plot 5 consists of 4 towers comprising of 16 stories, 14 stories, 14 stories, 8 stories including private, business and inn condos with a different scope of F&B outlets, a waterfront promenade and all related offices. It has an approximately 770 parking spaces with 2 entries and 2 exits to the car parks.

Plot 7 consists of 3 Commercial and Residential buildings. Plot 7 residential building comprising a ground floor and 10 additional floors, an office building comprising a ground floor and 4 additional floors and a multi storey car park building comprising a ground floor and 8 additional floors. It has an approximately 865 parking spaces with 4 entries and 3 exits to the car parks.

Plot 8 consists of 8-storey residential building, 8-storey office building, 7-storey car park building, and 2-storey retail building. The buildings will share the same 2 level basement. It has an approximately 920 parking spaces with 2 entries and 3 exits to the car parks.

Select Projects

- American Hospital – Dubai, UAE

- 51 Tower, Business Bay - Dubai, UAE

- Burlington Tower, Business Bay - Dubai, UAE

- Metropolis Tower, Business Bay - Dubai, UAE

- Semmer Villas, Dubai Silicon Oasis - Dubai, UAE

- Deira Waterfront Development Plot 5, Plot 7 & Plot 8 - Dubai, UAE

CONTROLLED PARKING

PARCX offers a full suite of products to control and manage non-revenue car park access. Utilizing various technologies that integrate with our PARCX controller, we can provide solutions for authorized parking users, by connecting to gate barriers that are controlled by our PAXESS software.

Benefits

CLIENTS/OWNERS
- Eco-friendly technology (*paperless*)
- Fully audited solutions
- Modular components
- User-friendly software
- Expandable to multiple locations

CAR PARK OPERATORS
- No moving parts
- Low maintenance
- Reduced operational cost (*paperless*)
- User-friendly software
- Advanced control features allowing car park operator to maximize revenue and enhance the parking experience
- Robust system developed and tested for GCC environment
- Increase capacity and turnover
- Easy management and maintenance

CUSTOMERS
- Fast and seamless access to car park
- Clear information to find parking spots
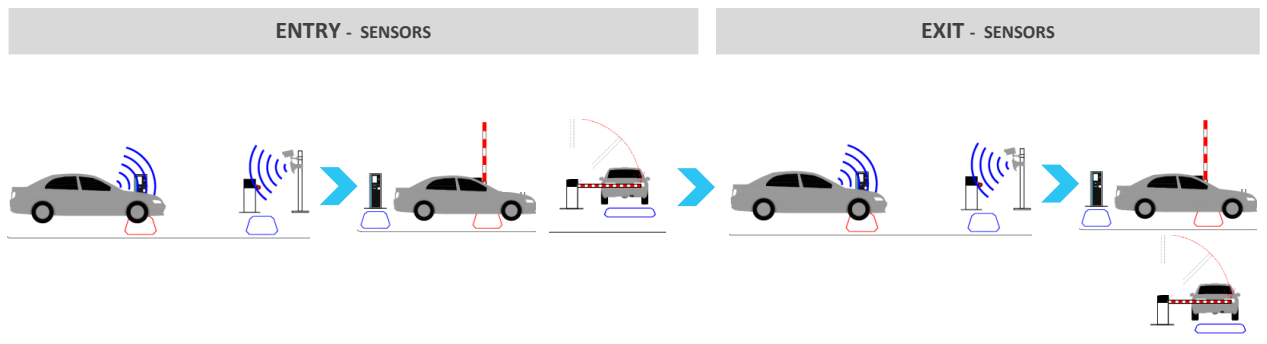- Increased security and safety features

Products

LANE EQUIPMENT
- X Terminal
- Short Range Proximity RFID Reader
- Long Range UHF RFID Reader
- ANPR Camera
- Gate Barrier

SOFTWARE
- PAXESS
- Cloud SAAS
- Mobile Applications

ENTRY - SENSORS	EXIT - SENSORS

CONTROLLED PARKING Feature Projects

Deira Waterfront Development (Plots 5,7,8)

DUBAI – UAE

Deira is the vibrant cornerstone of Dubai's trading legacy. The client required supply, installation, testing and commissioning the fully automated car parking management system for the three plots including the parking access control equipment for authorized parkers.

Plot 5 consists of 4 towers comprise of 16 stories , 14 stories , 14 stories ,8 stories including private, business and inn condos with a different scope of F&B outlets, a waterfront promenade and all related offices. It has an approximately 770 parking spaces with 2 entries and 2 exits to the car parks.

Plot 7 consists of 3 Commercial and Residential buildings. Plot 7 residential building comprising a ground floor and 10 additional floors, an office building comprising a ground floor and 4 additional floors and a multi storey car park building comprising a ground floor and 8 additional floors. It has an approximately 865 parking spaces with 4 entries and 3 exits to the car parks.

Plot 8 consists of 8-storey residential building, 8-storey office building, 7-storey car park building, and 2-storey retail building. The buildings will share the same 2 level basement. It has an approximately 920 parking spaces with 2 entries and 3 exits to the car parks.

Select Projects

- Metropolis Tower, Business Bay – Dubai, UAE

- Venetian Building Canal Residence Dubai Sport City – Dubai, UAE

- Deira Waterfront Development Plots 5, 7, 8 – Dubai, UAE

Vehicle Mobility

PARKING RESERVATION

PAXESS reservation solutions control and manage car park access. Access can be granted based on ANPR or QR code verification.

Benefits

CLIENTS/OWNERS
- Advanced eco-friendly technology (*virtual ticket*)
- Fully audited solutions
- Modular components
- User-friendly software
- Expandable to multiple locations
- Increased revenue streams through flexible visitor reservations and tenant pooling capability

CAR PARK OPERATORS
- No moving parts
- Low maintenance
- Reduced operational cost (*virtual ticket*)
- User-friendly software
- Advanced control features allowing car park operator to maximize revenue and enhance the parking experience
- Robust system developed and tested for GCC environment.
- Increase capacity and turnover
- Easy management and maintenance

CUSTOMERS
- Advance booking reservation
- Corporate pooling capability
- Fast and seamless access to car park
- No physical ticket required
- Clear information to find parking spots
- Increased security and safety features

Products

LANE EQUIPMENT
- X Terminal (optional)
- Entry/Exit ANPR Cameras
- Gate Barrier
- Variable Messaging Signage (VMS)

PAYMENT DEVICES
- Smart Pay Station integrated with ANPR
- Smart Cashless Station integrated with ANPR
- Mobile Payment Application
- Manual Cashier Station
- Handheld Mobile Cashier
- Tap & Go Payment at Exit Terminal
- Validation Terminal

SOFTWARE
- PARKPAY
- PAXESS
- Cloud SAAS
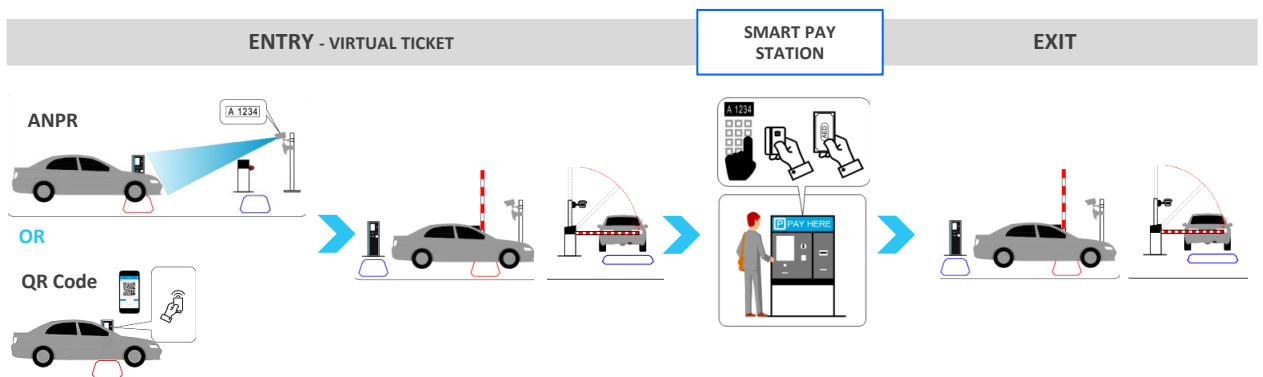
| ENTRY - VIRTUAL TICKET | SMART PAY STATION | EXIT |

ANPR

OR

QR Code

DNATA Cargo Village

DUBAI – UAE

Dubai Airport Freezone is a dynamic business hub located at the very heart of global trade. The client required supply, installation, testing and commissioning a fully automated ticketless car parking management systems for DNATA Cargo Village including online reservations systems.

DNATA Cargo Village opted to upgrade, from a ticket-based setup to a fully integrated ticketless parking solution.

The site comprised of a total of 15 lanes, including entry, transfer and exit lanes - each equipped for both vehicle and truck access. Additionally, two pay stations were installed for overstay scenarios.

The booking and validation of virtual tickets is conducted through the new PARCX solution, which was interfaced with the clients existing Logistic CRM system.

The car park has been operational since June 2019 and covers peak traffic of up to 8,000 vehicles daily.

Select Projects

- DNATA Cargo Village, Dubai Airport Freezone Dubai UAE

- Jeddah Islamic Port, KSA

PEOPLE MOBILITY

PARCX IOT Checkpoint can be connected to any existing or new pedestrian access point such as turnstiles, swing gates, doors and flap gates with our PAXESS software. The solution is designed to control entry rights through QR code via mobile app or email for access to designated locations.

PAXESS can be integrated to the parking management system, providing the visitor or tenant seamless access.

Key Features

- Designed & Tested for Gulf Regional Conditions
- Products made in UAE
- Modular Software Products
- Customizable and Upgradable Software
- Integration with Multiple 3rd Party Devices / Systems
- Cloud SAAS
- Centralized Monitoring and Management Platform
- Mobile Application Integration

Benefits

OWNERS
- Secure and regulated access to premises with audited trail
- Faster processing of people mobility/access
- Integration into government services
- Less staff
- High security

VISITORS
- Shorter queue times
- Access code sent to mobile App / email

PARCX IOT CHECKPOINT

Multiple IoT devices wirelessly deployed on a single network.

PARCX

3rd Party Cloud

1 Scan QR Code on the terminal

3 User entry transaction uploaded to the cloud

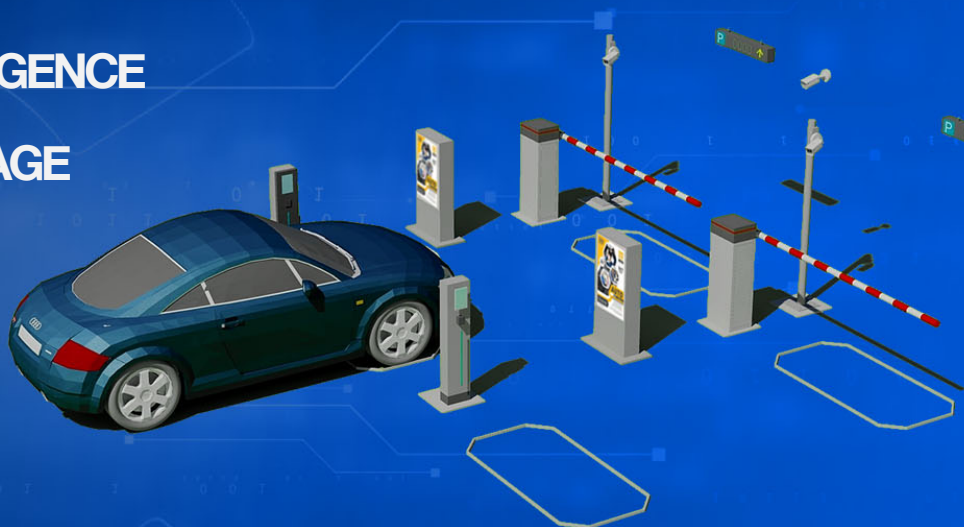**2** Access is allowed and turnstile opens

SPECIALIZED SOLUTIONS

PARCX smart controllers and software modules allow for the integration of multiple technologies and hardware devices, PARCX can tailor the solution to the clients operation needs.

HIGH SECURITY CHECKPOINT

PAY BY PLATE

LANE INTELLIGENCE

DIGITALSIGNAGE

HIGH SECURITY CHECKPOINT

Combining software and hardware to provide a secure vehicle access management solution for various high security locations, including borders, ports, refineries, production plants, freezones and datacenters.

To facilitate security checks for vehicles arriving equipment such as ANPR Cameras, Facial Recognition Systems, Lane Monitoring system, Undervehicle scanners, Road Blockers, Tire Killers among others are incorporated to create customized access and verification flow to suit the end user requirements.

Benefits

OPERATORS
- Multi-level verification
- Highly secure
- Queue management and booking
- Automated process
- Increased productivity
- Audit Trail

END USERS
- Seamless journey
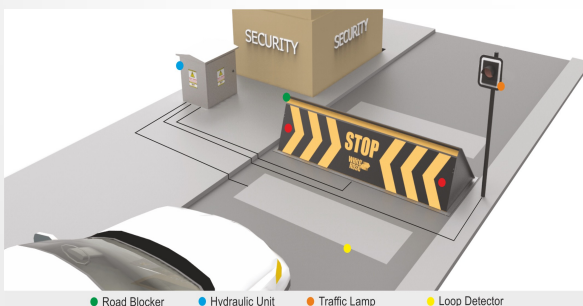- Fast throughput
- Reserved timeslot

Products

LANE EQUIPMENT
- X Terminal
- UVSS
- ANPR
- VMS
- Gates
- Variable Messaging Signage (VMS)

SOFTWARE
- Customized Software
- Integration with government services
- Cloud SAAS

FEATURE PROJECT

● Road Blocker   ● Hydraulic Unit   ● Traffic Lamp   ● Loop Detector

Jeddah Islamic Port

KINGDOM OF SAUDI ARABIA

The project required:
- Standard boom barrier.
- Road blocker / tyre killer
- Under-vehicle scanner
- Facial recognition
- Number plate recognition.
- Passenger identification
- Visitor management back end

PAY BY PLATE

Our Pay by Plate solution is applicable to various sectors. PARCX controller connects to various equipment including ANPR cameras, laser sensors, loop detectors and welcome screens; enabling clients' software to identify existing customer accounts through number plate recognition. Based on membership level settings, the customer interacts with LED welcome screens, allowing access to a suite of features and payment options, including e-wallet for automatic cashless payments.

Benefits

CLIENTS / OPERATORS
- Increases customer loyalty
- Tracks consumer spending
- Increased turnover and productivity
- Minimal operator interaction

END USERS
- Personalized services
- Reduces waiting times
- Cashless transaction

Products

LANE EQUIPMENT
- Smart X Controller
- ANPR Cameras (*various brands*)
- Laser sensors
- Loop sensors

SOFTWARE
- Customized Software
- API integration

FEATURE PROJECT

Fuel Stations

UNITED ARAB EMIRATES

Vehicles approaching the Client's fueling bays are recognized by plate numbers. The customer information for existing accounts is captured and processed in a central system, where the pump is automatically activated and ready for fueling. Once fueling is completed, the charges are automatically deducted from the e-wallet allowing of cashless payment.
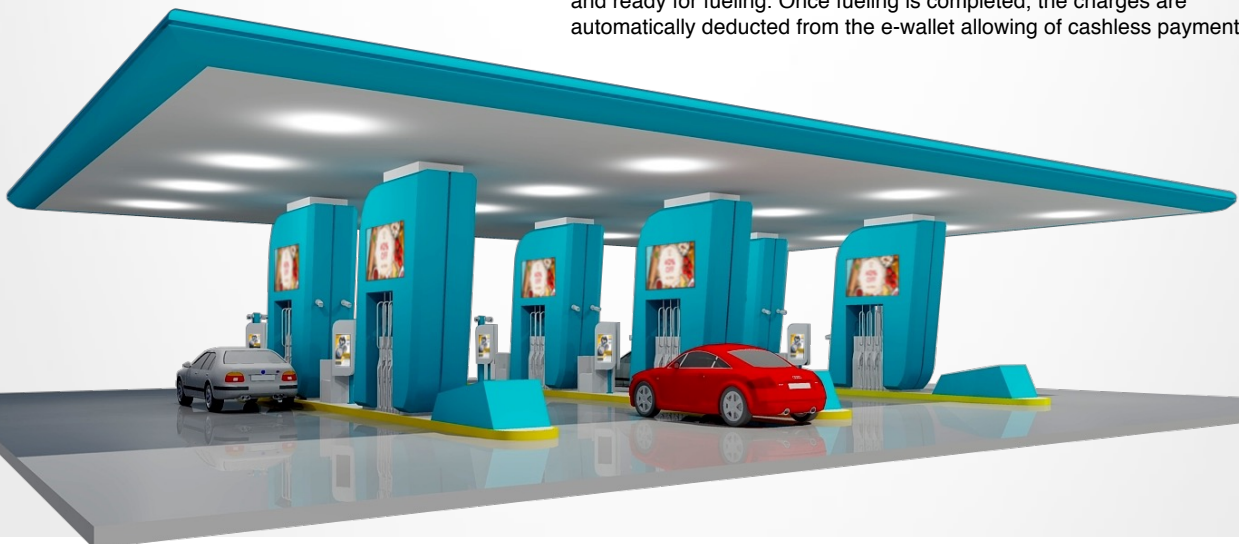
LANE INTELLIGENCE

Our software communicates with various sensors and cameras to monitor Traffic lanes or zones for queuing, congestion, occupancy, pedestrian passage , obstacles and this information is conveyed to operators via dashboard, notifications and outdoor LED screens

Key Features

- Queuing Detection
- Lane Congestion Detection
- Obstacle Detection
- Pedestrian Detection

Benefits

CLIENTS/OPERATORS
- Reducing congestion at collection points
- Increases productivity
- Increased safety
- Increased operational efficiency

Products

LANE EQUIPMENT
- PARCX Smart Controller
- CCTV Cameras
- Laser sensors
- Loop sensors

SOFTWARE
- Lane Intel

FEATURE PROJECT

AL HAMAD INTERNATIONAL AIRPORT

DOHA, QATAR

PARCX provided a lane monitoring solution which monitors the bays in the luggage handling warehouse where the tugs / trucks drop off the baggage to conveyor belts. The system connects with camera based sensors to monitor the bays, with information displayed on large LED screens indicating bay availability, as well as monitoring and reporting congestion.

Specialized Solutions

DIGITAL SIGNAGE SOLUTIONS

Our Digiview digital signage software interfaced with touch screen, sensor apps, beacons, RFID, QR Codes, NFC and Bluetooth with intuitive interfaces that showcase graphics & animation, custom branded templates, and more.

Digital signage applications for meeting rooms promotions, workflow or status updates, dashboards, LED displays, wayfinding displays, information display systems, elevators, storefronts, ad engines, and much more with interactive and user friendly elements.

Content Management

PARCX Digiview Content Management solution integrates and communicates with surrounding systems, enabling clients to connect with their target audience by displaying specific information and advertising directly relevant to the identified customers.

IoT-Connected Digital Signage

IoT-enabled digital signage software optimized for content sharing via intelligent appliances and digital signage screens, designed to pull and generate content for display and brand awareness promotion.

Trigger-Based Digital Signage

PARCX Digiview Content Management solution integrates and communicates with surrounding systems, enabling clients to connect with their target audience by displaying specific information and advertising directly relevant to the identified customers.

Outdoor Signage Display

Our experts implement outdoor digital signage solutions with hardware that can withstand outdoor weather & high temperatures, designed to promote your brand via LED Screens.

CUSTOM SOFTWARE DEVELOPMENT

Our PARCX team of experts are ready to design and develop bespoke digital solutions to meet your unique business requirements.

We automate your business processes while focusing on the required operational flow, problems to be resolved and goals to be achieved. Our PARCX team provides a range of custom software engineering services, including development consulting, architecture design, development, testing and deployment.

With the focus on providing seamless user experience, we build the following types of turn-key custom solutions that reflect your demands and capabilities:

- Desktop
- Mobile
- Cloud-based
- Web-based

We offer our services to

- Automate diverse enterprise processes including payment collection, data handling, operations monitoring and more.

- Solve complex integration challenges by securely connecting distributed systems including Cloud, SaaS applications, legacy systems, and multi-vendor enterprise solutions.

- Create a customized product or solution combining various hardware components /devices with a centralized management platform or control software.

- Integrate specialized applications as it allows adding value to daily operations and to do business in a more time- and cost-effective way.

**We design bespoke solutions focusing on streamlined user experience.**

Development of Middleware Solutions

We develop scalable middleware solutions to interconnect multi-tier enterprise systems, web services, or legacy software and achieve higher operational efficiency with faster problem resolution.

PARCX custom middleware solutions streamline and automate workflows across several applications, eliminating manual data entry to ensure the most accurate data.

We utilize message-oriented middleware processes to mediate messaging operations and facilitate synchronous communication between distributed systems.
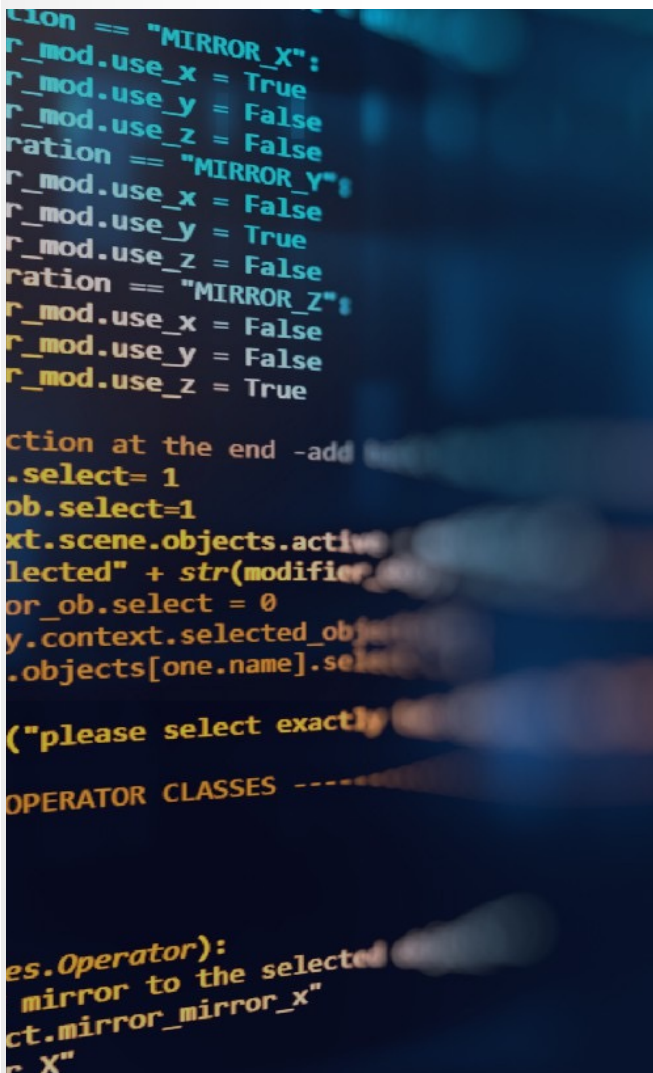
Key Features

- **Application Programming Interfaces (APIs)** We leverage the power of microservices, containers, and cloud-native architectures for exposing and publishing information and triggers via APIs.

- **Database Middleware**
  We perform middleware integrations within your existing database management systems to enable the transmission of data between the client and the web servers.

- **Portal Middleware**
  We implement middleware software into your business portal's back-end systems to provide a collaborative and composite environment.

- **Embedded Middleware**
  We perform embedded application middleware integrations to allow for communication with another software, web servers, or firmware interface.

Cloud Application Development

Integrating AWS with your current business systems to ensure that your cloud application is highly durable, secure, and available to all appointed members of your organization.

Cloud Integration Services

Integrating current business software solutions with cloud applications to increase your entire IT infrastructure, promoting additional robustness, reliability, and cost-efficiency.

Cloud As-A-Service Development

Delivering custom-tailored software-as-a-service (SaaS), infrastructure-as-a-service (IaaS), and platform-as-a-service (PaaS) solutions designed to scale businesses as they grow.

IoT Cloud Solutions

Combining the power of IoT and the cloud to create robust, highly functional cloud IoT solutions that support connected applications, power industrial operations, and more.

Custom Parking Management and Vehicle/People Mobility Solutions

Custom application controller for controlling third party equipment. We develop parking management and vehicle/people mobility solutions for clients with custom flows/methods in authentication as per the clients or operator requirement, allowing for easy management of the facility along with smooth customer journey while meeting all the security and access verification processes required.

Integrating the clients exiting systems and software, such as mobile apps, back-end ERP, building management, monitoring dashboard, visitor management systems along with PARCX hardware controllers we provide stable and easy to manage solutions.

Combining our expertise in other areas of development for cloud, IoT, integration; we provide clients with stable and user-friendly solutions that meet their custom operational needs.

Internet of Things (IoT)

By leveraging our expertise in embedded systems, cloud environments, IoT platforms, web apps, and custom development, we can help your business create a state-of-the-art IoT solution - from basic prototyping to market-ready product.

The Internet of Things (IoT) describes a set of interconnected physical devices that are able to connect and share data with other devices via the internet. The development of this technology is the backbone of the emerging business landscape - from smart buildings and automated factories, to smart healthcare and service infrastructures.

KIOSK /Software Development

We integrate kiosk system software with hardware for biometric retina scanners, fingerprint readers, cameras, simple card readers, receipt / thermal printers, bill acceptors / dispensers, barcode scanners, RFID, ticketing systems, and lockdown devices in kiosk mode.

Our kiosk development solutions include intuitive user interface/experience, remote management capabilities, branding management, visitor registration/management, onsite printing, and automated reports.

Cash Free Payments Implement EMV-compliant/PCI-compliant cash-free payment systems, allowing you to receive payment from your customers digitally.

We create the ultimate user experience that's custom-tailored to the Kiosk environment, designed with a consistent brand, and created with stunning aesthetics.

Software & Hardware

PARCX PRODUCTS

Our range of software and hardware products are developed and manufactured to uniquely offer unparalleled levels of flexibility in selecting and integrating a complete vehicle access and people mobility solutions that are scalable to accommodate single-sites to complex multi-location setups.
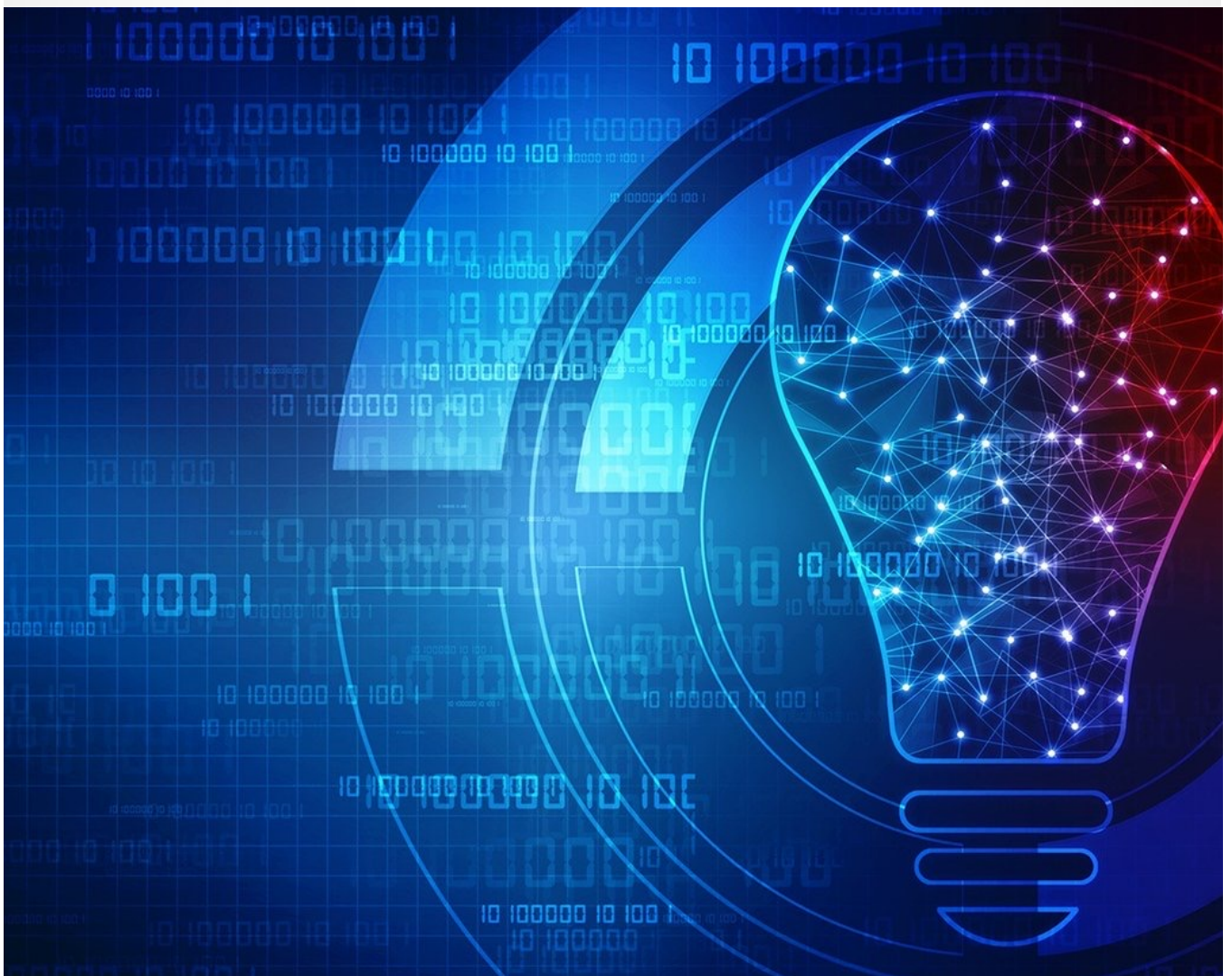
PARCX

Software Products

Our software is designed to provide user-friendly, secure and future-proof systems that streamline vehicle access processing for both vehicles and pedestrians.

PARCX Softwares

- **PARKPAY**
  Revenue Parking System

- **PAXESS**
  Non Revenue Access, includes:
  - PAxess
  - VAxess
  - Reservation
  - High Security Checkpoint

- **Lane Intelligence**
  Lane / Zone Monitoring

- **Digiview**
  Digital Signage / Content Management

- **Pay By Plate**

Features

- On Site deployment – Small / Medium / Enterprise
- Cloud solution available
- Server redundancy available (dual license)
- Proprietary database management solution - assure data integrity & auditability
- Unlimited devices
- Unlimited card holders / B2B interface
- Built in device level redundancy and stand alone functionality
- Built-in AI based on historical data

OPERATORS
- Configuration
- User Management
- Dashboard
- Alerts
- Counters
- Validations

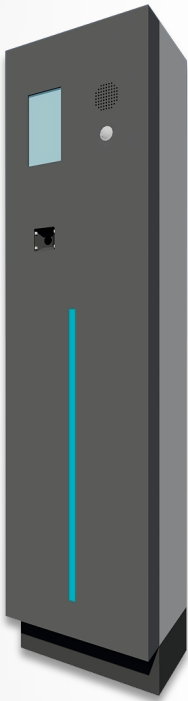**REPORTS**
- Revenue
- Parking
- System

Hardware Products

PARCX range of hardware equipment is easily upgradable and expandable to meet client requirements.

PARCX hardware means efficient and powerful performance.

ACCESS TERMINALS
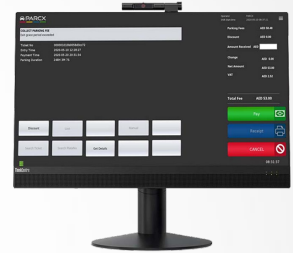

X Terminal
PX-XT-22-MK3
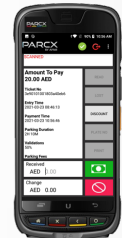
Checkpoint
PX-CP-22-MK1

PAYMENT DEVICES

Cashier Station
PX-EASYPOSPRO

Cashier Pad
PX-HHCP

Park Pay Kiosk
PX-PPK-STD-22-MK1

Cashless ParkPay Kiosk
PX-PPKCL-MK1

Validation Terminal
PX-HHVP

LANE EQUIPMENT
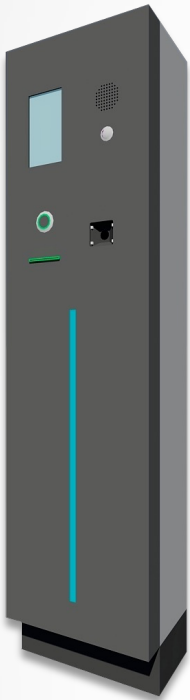
Entry Terminal
PX-ENT-22-MK3

Touchless technology.

VMS Tower Signage
PX-VMS-TWR-22-MK2

VMS Indoor Signage
PX-VMS-SG-22-MK1
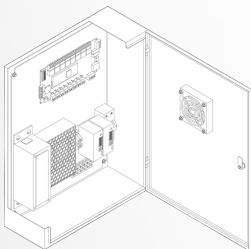
ANPR Smartbox
PX-SB-22

Fast Barrier
PX-BR-22-MK1

CUSTOM SKIN DESIGN

We offer a spectrum of colors and customization options that allow clients to personalize and suit the design of their facility or brand (OEM).

PARCX

TECHNOLOGY

info@parcxtech.com

www.PARCXTECH.com