

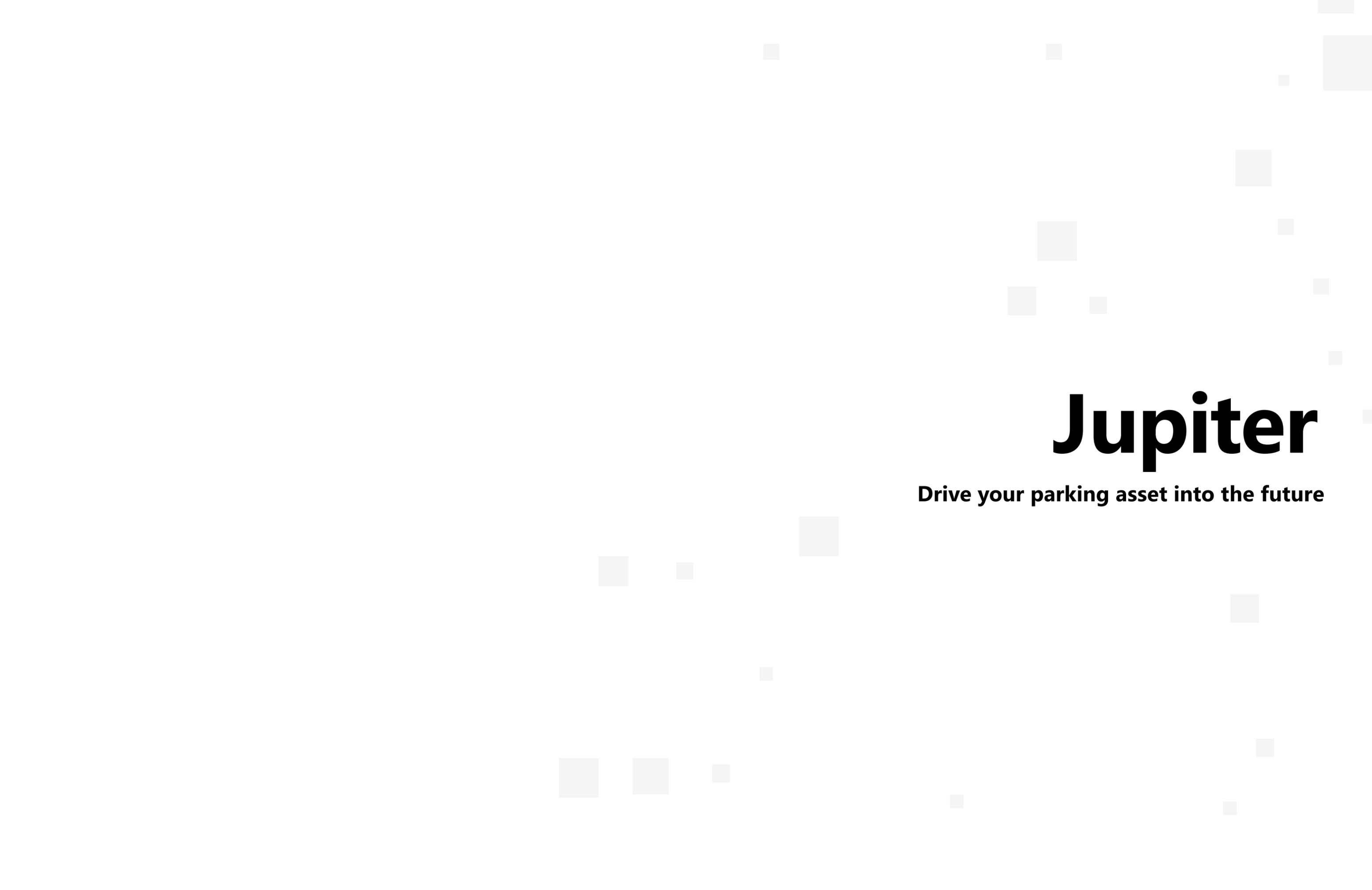
EN

# Jupiter

Drive your parking asset into the future

Parking  
Technology

HUB



# Jupiter

**Drive your parking asset into the future**

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# Drive your parking asset into the future

Parking services have entered the digital era, while drivers' demands are evolving. And so is technology!

Cities and the parking world are changing, and increasingly rely on data-based solutions to improve the quality of life of citizens, drivers, and businesses. The role of parking technology for **smart urban development** is critical, as it contributes to a more efficient mobility ecosystem. The combination of customer demand and policy on a worldwide scale thus drive the development of new services, and demand **parking technology providers** like HUB to innovate with end-to-end solutions.

Delivering value and constantly interfacing with the market requires a degree of **openness and flexibility** that challenges the traditional approach to product and services design: here we are!



# Who is HUB

HUB is a brand of FAAC Technologies, a global leader in access and revenue control systems with solid financial foundations and world-class brands.

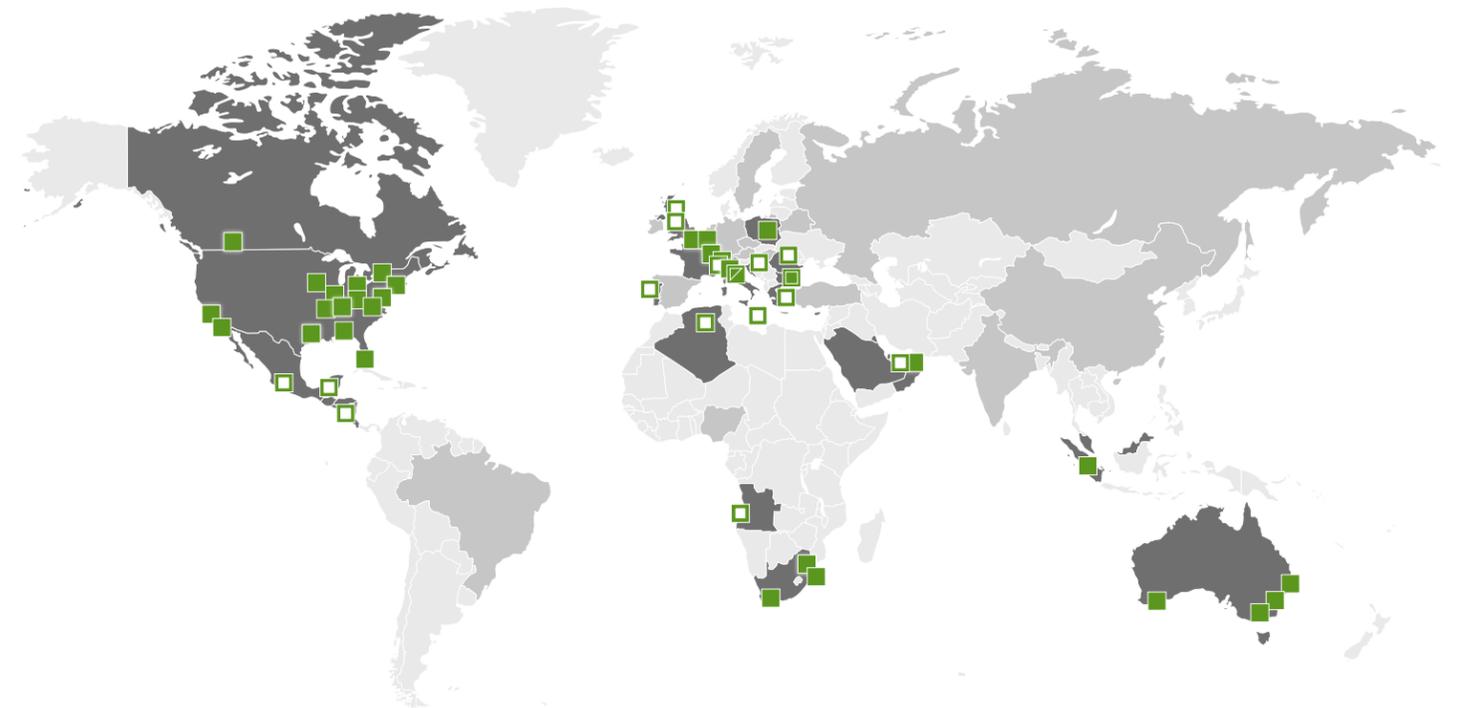
Our backbone is a combination of unique skills, network and strength of a global player, with the flexibility, professional expertise and close service of a local organization.

HUB is a vertically integrated company - controlling all phases from design, to manufacturing, distribution, installation, and post-installation support including preventive maintenance programs. We are especially proud of our **R&D** as well as **the service organization**.

Our software engineering team – of approx. 100 professionals - is spread across **Europe and North America** and it is fed by global markets feedback. We listen to our customers from all over the world, so to satisfy current demands, and plan ahead to help create efficient mobility ecosystems. Everywhere!



# Where we are



HUB Offices



Manufacturing Plant



Distributor

# Cyber Security

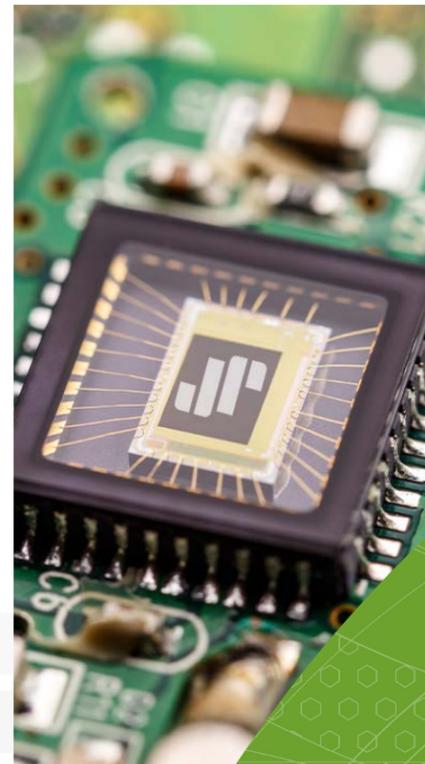
## We invest in risk and compliance staff

Our teams are knowledgeable in ways to prevent cyber-attacks and monitor the increasing evolution of **compliance requirements** to ensure that we protect the data and information to your clients (credit card and personal information).

We deploy preventive measures and equipment (servers, firewalls) and because of our financial strength, we **mitigate risk** by providing significant cyber insurance coverage.

We have the capability to deliver our technology through a true cloud platform, providing **economies of scale** to clients who prioritize flexibility, reliability, and security: moving the system to a third party who is responsible for protection reduces cost and risk.

HUB cloud solution eliminates the hassle of maintaining and updating systems, so you can invest their time, money, and resources into fulfilling your core business strategies.



11,000+

Installations worldwide



100

Years of combined experience



600+

Employees in the world



2

Factories



30+

Countries (FAAC Technologies)

# Our Stakeholders

Every specific segment of application is different, and deserves customized parking management

Parking facilities greatly vary in terms of size, user groups, quantity and quality of integrations with third party systems, and overall **degree of complexity**. Their owners and operators may develop a specific vision for their evolution, or just be content with an efficient, effortless management that satisfies their end users.

Jupiter is the ideal solution! Applicable in a wide spectrum of parking environments, both where transits might peak unexpectedly and where they are all pre-booked and accounted for: everywhere drivers expect a smooth way in and out of the car park.

## Customized Projects for Large Parking Operators

Smart parking management is much more than the literal meaning of organizing parking spaces in the most rationalized way. For most operators, it means adopting **integrated, end-to-end solutions** that provide a comprehensive overview of their facilities, customized reporting capabilities, and the highest profitability. **Jupiter is designed for that!**

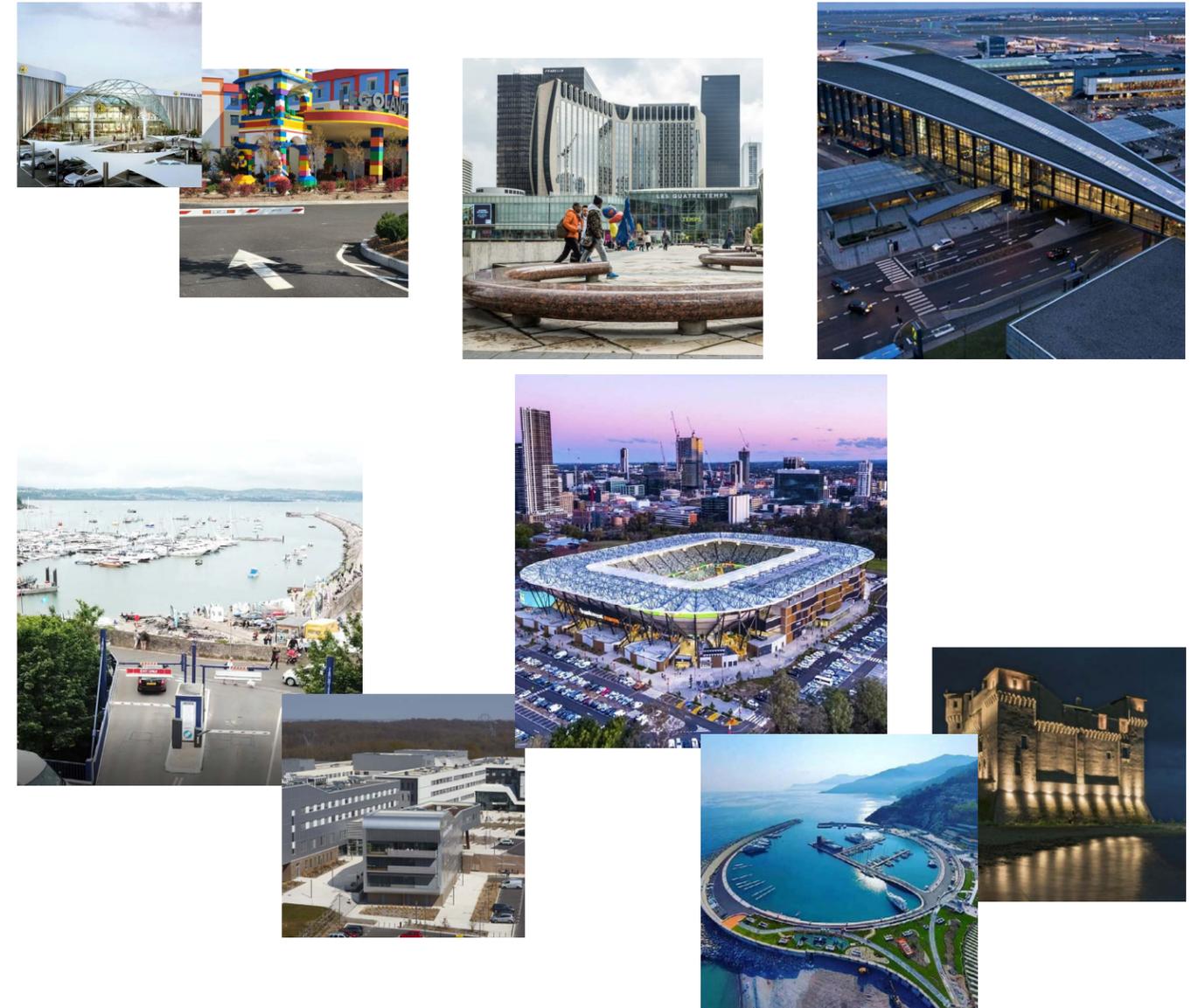
HUB system is also ready for **Mobility as a Service (MaaS)** and multi-modal transport hubs. Organizing mobility in a forward-thinking way means allowing travelers to access modern facilities, switch to another transport mode as comfortably as possible, and pay through an app (or a platform that unifies a number of apps) without stress.

- |   |  |
|---|--|
|  Airports & Intermodal Stations   |  Business Centers and Office Buildings  |
|  Shopping Centers                 |  College & Universities                 |
|  Municipalities and Urban Garages |  Residential Area                       |
|  Hospitals                        |  Sports, Theme Parks, Exhibition Venues |
|  Hotels                           |  Tourism & Seasonal Sites               |

# Customers who have chosen HUB

International clients, parking owners and operators rely on our expertise

Modular advanced technologies make parking operations efficient and sustainable: Jupiter deployment has positioned many businesses for long-term success. Thanks to their trust and the enthusiasm of our teams, we have achieved impressive goals **together**.



↑ References from left to right: Forsan, Middle East, Shopping Center; Legoland, NYC, Entertainment Park; Ville de Puteaux, France, Municipality; Copenhagen CPH, Airport; MDL Marinas, UK, Tourism; Santepole, France, Hospital; CommBank, Australia, Stadium; Cala del Forte, Italy, Tourism; Santa Severa Castle, Italy, Tourism;

# THE SYSTEM



# Jupiter Unified Solution

New demands mean new and more flexible features to embrace innovation.

HUB's focus is to deliver a seamless, compelling and secure experience. Jupiter is designed to adapt to complex systems incorporating contract parking, credit card in/out parking, pre-paid parking online, license plate recognition or a combination of these.

Jupiter comes not only with an appealing design, but also with an intuitive set of icons, touch points, and LED guidance elements that turn the human-machine interaction into a rational and flawless process. The main features of the system include:

-  **Full stainless steel cabinet construction**
-  **Weather-proof, working in extreme temperatures**
-  **Multiple combinations of Entry and Exit functions**
-  **Multiple ticketless access options**
-  **Multilingual high-contrast displays**
-  **Impact and scratch-resistant monitor**
-  **Seamless integration with multiple access media types**
-  **Barcode and magnetic ticket technology**
-  **Multiple combinations of electronic payment devices**
-  **Lockable access doors on two sides for lane stations**

# Worldwide Certifications

Despite being a space-age product, Jupiter complies with directives and ergonomics of planet Earth.

The entire range complies with the essential health and safety requirements set out by worldwide organizations such as CE and cULus.

Restriction on the use of certain hazardous substances in electrical and electronic equipment  
Directive 2011/65/EU - ROHS2

Electrical equipment for use within certain voltage limits  
Directive 2014/35/EU - LVD



Listed for compliance with cULus requirements on safety

Electromagnetic compatibility  
Directive 2014/30/EU – EMC



IK09 impact-resistant display

ADA compliant + PMR compliant





# Transition to Greener Parking: Ticketless Solution

Boost your customer comfort and your car park operational efficiency



The upgrade of an existing car park to fully ticketless (or hybrid, where tickets live on until a certain date) grants drivers smooth entry and exit, save their time in-lane, and maximize the facility transactions. Ticketless upgrade can take many configurations!

### FAST

Free-flow transit is quick and stress-free, via:

- LPR**  
Drive-up Camera-based License Plate Recognition
- RFID**  
Tolling Integration, or VIP Reserve Parking
- BLUETOOTH**  
Digital Ticketing, via JPass app
- QR CODE**  
Pre-booking or Employee Parking

### SECURE

Every vehicle is associated to a unique digital ID, delivering:

- No risk of lost/swapped ticket
- Prevention of fraud for free parking
- Find My Car feature on pay station display, ideal for larger car parks

### EFFICIENT

Operations and traffic flows are optimized:

- Speeding up transaction time**  
No need for desk staff
- Increasing transaction volume**  
As derives from a quicker process
- Eliminating room, time and manpower**  
to handle paper ticket stock

Digitalization has changed the way of interacting with many services, though not all customers may be fully ready: the disappearance of tangible paper tokens (tickets, receipts) shall be duly explained through **signage and display instructions**, in order to avoid any destabilizing effect on users.

# Future forward: Touchless Parking

Digital platforms and flexible solutions offer the unique opportunity to meet the ever-increasing safety requirements within their facilities... immediately.

A safe and completely touchless access car parks is no longer an option: for operators and parking owners, it is a given, and for drivers it is a reasonable expectation.

Safety is the first and foremost improvement for customer experience. For **brand new car parks** and for the **upgrade** of existing ones alike, the digital alternative to "old" buttons are Jupiter's embedded touchless sensors, than enable:

- ticket issuing, on entry units - the *wave-and-go* sensor is activated when the driver's hand is at 5 cm or closer, avoiding incidental readings.
- intercom calls, on all units - same way, in front of the *help area*

The risk of initiating other actions such as reading a proximity card (eg. an employee's badge) is zero: the badge reader is 25 cm below the ticket issuing sensor, so reading the badge is a straightforward action, without triggering the ticket sensor.

Large clear icons and prompt LEDs complement the stations' guidance and indicate users where they need to interact. **Easy and user-friendly: parking should never be a stress!**



# Software Solution for Desktop and Mobile



JMS delivers superior technology: monitoring and access to complex reporting and analysis, improving decisions through data that is always-on, instant, and easy-to-access.

### JMS is reliable, flexible, and ensures 24/7 connection to the business.

From the smallest installation, to the most complex project with the highest traffic level, it allows operators to manage multiple parking locations with the same easy and extremely intuitive user interface.

### JMS serves as a powerful digital marketing device.

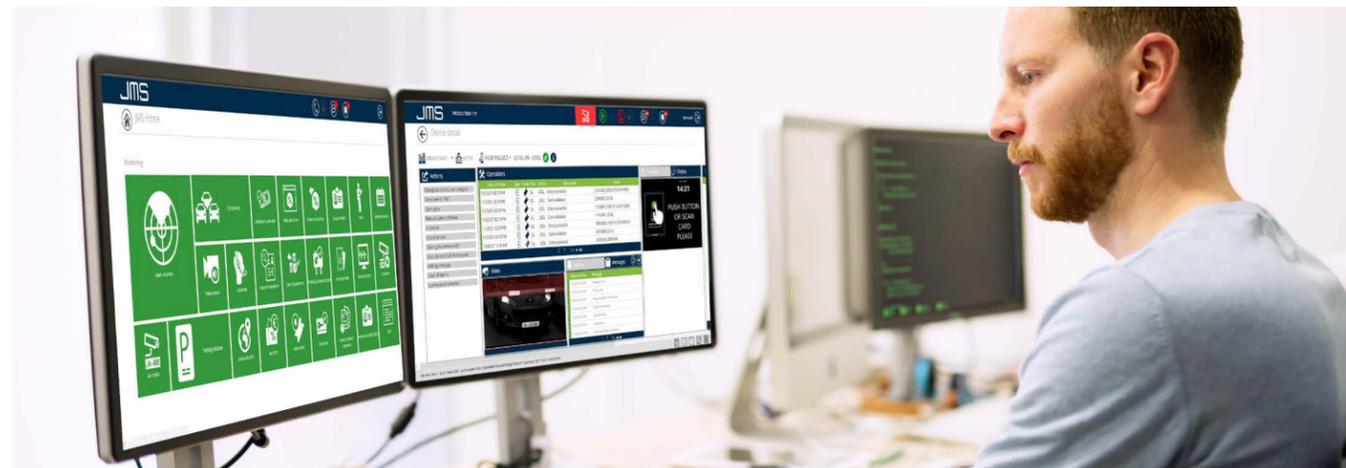
Allowing to showcase video content and ads through any screen display in the network (Pay Stations, VMS displays, dedicated videos...) turning them into a **revenue generating tool**. The system can also be made available to third-parties to display advertisements, offering nearby companies the opportunity to increase their visibility and for operators, to drive more value to their business.

**JMS is able to transform the way parking information is gathered and presented.** By connecting data collection and analysis, it provides insightful business intelligence: customizable reports (by time, access media, tariff, anything!) pave the way for data-driven decisions.

### Open platforms and modular architectures are essential.

They allow operators to integrate multiple technologies and providers, and easily scale with time.

With JMS, HUB keeps abreast of the digital transformation demonstrating our capability to adapt to a global mindset change and contributing with our technology to the development of smart cities.



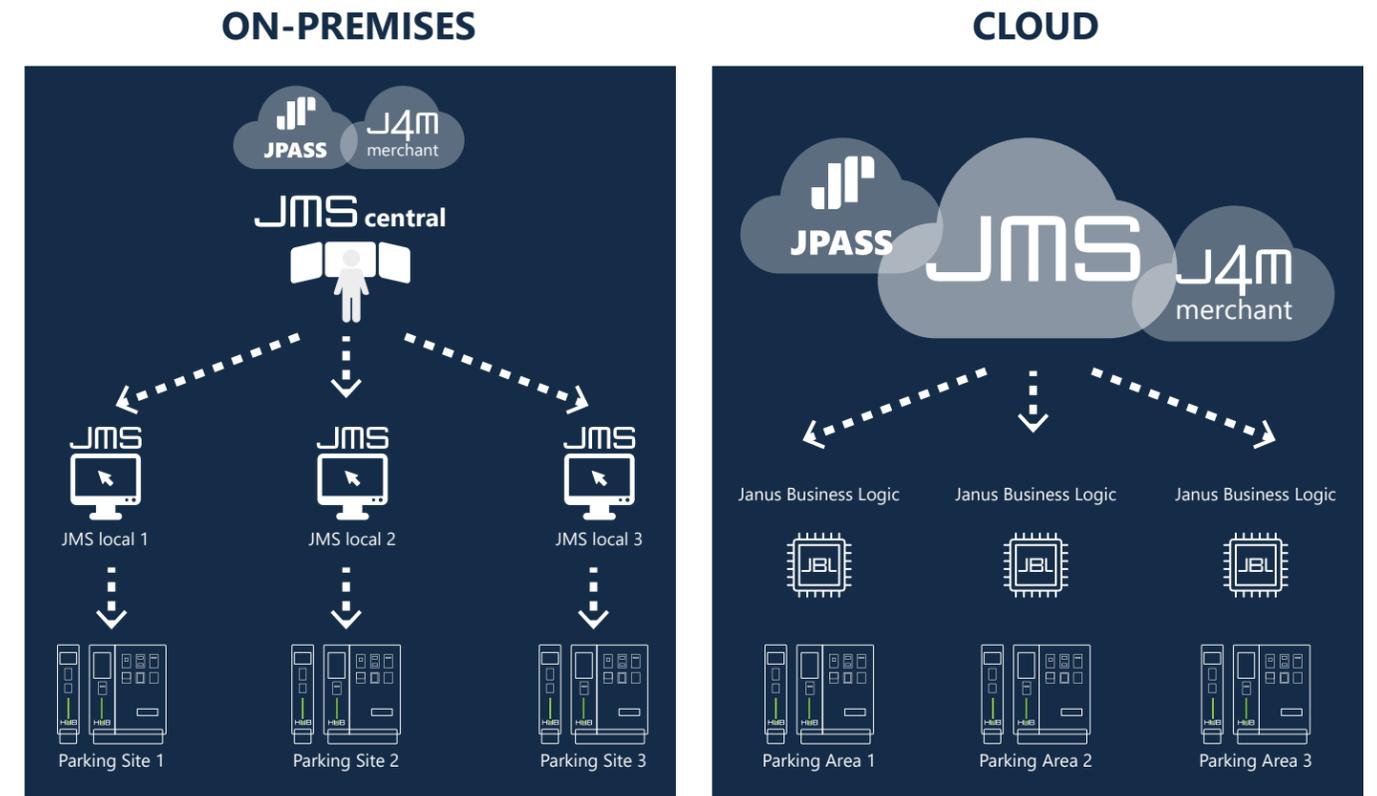
# Whole Technology Stack Ownership

HUB is a unique entity owning, designing, developing and manufacturing the entire stack of technology.



JMS is designed to manage both on-premises systems and cloud ones at best. HUB's multi-tenant cloud solution grants that your system is always up to date and exceeds the expected performances. For everyone's benefit: **parking owner** has lower TCO, **parking operator** relies on a facilitated approach to parking operations, and **drivers** enjoy a smooth parking experience, even during an internet outage.

Let's compare these approaches:



From lane barriers, to pay stations and more, JMS cloud-based software solution tracks everything at once, making parking staff **better informed** and **better placed** to respond to unusual or emergency situations, while giving them the chance to enhance operational efficiency.

HUB systems do not fall under the scope of PCI because they do **not store any credit card data**. Strictly observing the EMV chain of custody, all EMV devices bolted into Jupiter stations are safely stored and installed, eliminating the risk of any third party malicious modification. Our systems rely on industry-leading providers such as AWS, which guarantee the utmost uptime and cyber security.

Real Time Monitoring



Timely Assistance



Advanced Planning & Reporting



New Streams of Revenue



# Gift your Hotel Guests a 5-Star Parking Experience



Unlock a streamlined smart solution tailored for your hotel and explore the benefits of managing your guest parking with J4H:



## Elevation of customer experience

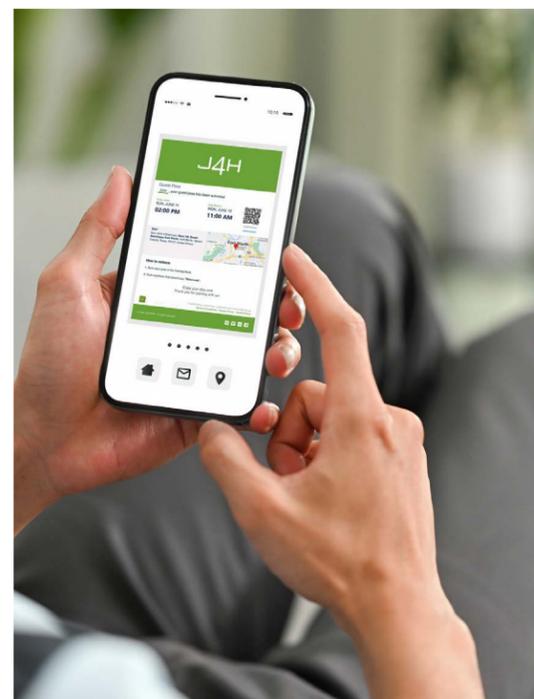
J4H elevates customer experience in hospitality by streamlining parking for hotel guests. Through an intuitive and user-friendly application hosted in the cloud, parking operators and hotel administrators have a real-time complete overview of parking operations.

## Easy registration of guests

J4H facilitates the registration of guests and the issuance of Guest Passes in just a few simple steps. The hotel administrator has complete autonomy in managing Guest Pass information and check-in/out times.

## No expensive hardware integrations

J4H outweighs the need for expensive HW integrations and intricate network configurations. Hotels enjoy a smart and integrated solution directly from their front desk, with flexible options to generate Guest Passes.



## EMPOWER YOUR GUESTS WITH DIGITAL PASSES

**BOOK IN ADVANCE**  
offer a Guest Pass complete with license plate details and a QR code with the online room reservation, allowing guests direct entry to the hotel parking upon arrival.

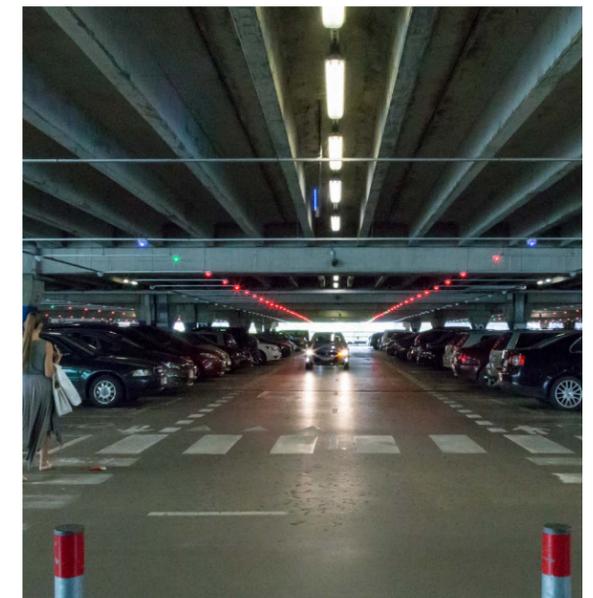
**PARK FIRST, CHECK-IN LATER**  
transform a temporary ticket into a convenient and personalized Guest Pass.

**CHECK-IN FIRST, PARK LATER**  
upon check-in at the reception, generate a Guest Pass valid for the entire stay, then print it or send it via email to the guest.



## Benefits for parking operators and hotel administrators:

- Easy creation of standard guest passes, access policy, and overstay rate, thus simplifying staff tasks
- Quick access to Guest Pass-related information and updates
- Hotel-specific reporting, providing real-time data on revenue and usage patterns
- Enhanced parking experience for guests, contributing to increased customer satisfaction
- Full integration with the entire HUB Platform



## Satisfied guests:

- Frictionless entry and exit with License Plate Recognition or QR code
- Gain access to your pass details by receiving them in advance directly to your email
- Enhanced parking and lodging experience, without the worry of searching for a parking spot



# The Mobile Key to Parking

JPass provides a seamless and touchless parking experience to the drivers, while supplying operators with valuable user data and a low cost of ownership.



## How can JPass benefit you?



**Strategic Data Processing**  
Collect actionable business insights about transient and recurrent customers.



**Improve customer engagement**  
Reach your customers with discount vouchers, updates, and special rates to boost occupancy.



**Digital Transactions**  
Control the volume of tickets and subscriptions with in-app purchase.



**Seamless integration**  
JPass is integrated with JMS, to give you total control and visibility on the business performances.

## What about your customers?



**Save Time**  
Drivers save time as the app shows them available parking spots and they can even book in advance and remotely extend the parking session



**Online Storage**  
All passes are stored in the users' phone for a completely paperless experience. Parking history is accessible through the app 24/7.



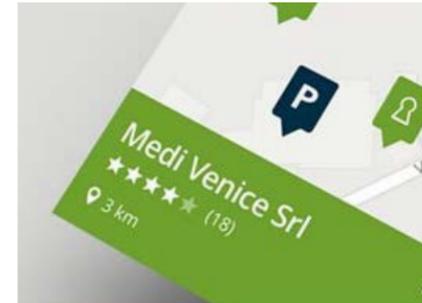
**Digital Payment**  
Secure and flawless payment thanks to the in-app payment functionality. All e-receipts are sent automatically to the users' inbox.

## How does JPass work?

JPass user finds the garage on the app, arrives at the gate and receives a digital ticket on the app.

When it's time to leave, the driver pays the parking fee through the app, or remotely extends the session.

Once at the exit gate, the driver presents the digital ticket and the gate opens, so they can leave the parking lot.



JPASS APP IS AVAILABLE WITH YOUR OWN BRANDING!

## JPass Features at a glance:

### ■ JPass Administrator Portal

The JPass Administrator's portal is HUB's web based cloud to manage JPass operations. It allows the operator to manage booking transactions, check payment history, view **analytics** and data to optimize parking supply and demand.

### ■ Track Transient Parkers

JPass and the Bluetooth technology embedded in HUB's peripherals enable **transient** customers to enter, pay and exit a parking lot using their smartphone.

### ■ Subscriptions

Operators can use JPass to promote online sales of products, such as monthly or value card subscriptions. JPass can be linked to existing physical **credentials**, such as a proximity card and/or license plate: total accuracy at your disposal.

### ■ Account Self-Management

JPass gives drivers all the tools to manage their account: setup and maintain payment and **data wallet**, turn on and off notifications, view parking history, find all tickets and subscriptions in the same place.

### ■ Pre-booking

JPass users can reserve a parking spot. Pre-bookings can be generated for HUB sites where **JMS** is installed. Or, JPass can create pre-bookings where JMS is not installed.

### ■ Search & Navigate

JPass can help drivers search for parking and view parking details such as rates and opening hours. They are also able to **locate** and choose special offers that are generated by the parking operator.

### ■ Vouchers (Validations)

When paying - if the app has any active voucher for the parking location - JPass users will be shown the **voucher** and they can simply tap on it to use the discount. JPass works perfectly fine with J4M Merchant.

### ■ Multiple Payment Options

JPass allows in-app payment by using the newly entered or stored credit card. As an alternative, the **digital ticket** can be paid at the exit station or at the fee computer.

# The Ultimate Validation Solution



J4M is an ideal solution for complex environments such as shopping malls, train stations, mixed-use facilities which offer a shopping experience to travelers, commuters, visitors, and employees.



As a parking owner, operator, or a local merchant, you can reward your customers' purchases easily and quickly with a **rewarding program** that includes parking validations. With the **J4M Merchant app**, you can turn your smartphone or tablet into a powerful validation unit, set up as **many discounts** as you wish, and massively simplify operations!

Available for iOS and Android phones and tablets, J4M will grant you **full control** of all claimed validations. How? The merchant staff simply scans the parking ticket ID number, barcodes and digital tickets (stored in **JPass** mobile app) via the device-embedded camera, and **applies the desired parking fee discount in real time**. As simple as a tap on the screen!

HUB's J4M Merchant Validation is also available for **desktop devices**, with the additional print-on-file functionality that allows to **print vouchers** on paper or on electronic file, and send vouchers via any media: social media, emails, packages, stickers and many more. An ideal fit for direct campaigns to customers and any touchpoint that they might read.



SMARTPHONE  
TABLET

BARCODE - TICKET ID -  
DIGITAL TICKET

PARKING  
DISCOUNT

## PARKING VALIDATION HAS NEVER BEEN SO EASY

### 4 DRIVERS

- Parking validations become easy and convenient: the best to top off the shopping experience
- Flawless payment and exit, without any additional paper voucher or receipt to scan at pay stations/exit lanes other than their parking ticket
- Completely paperless parking, when using JPass mobile app and its digital voucher



### 4 SHOP OWNERS

- Rewarding program: offering parking discounts to clients becomes a powerful promotion tool
- Shape your own validation program, choosing among: percentage discount, money discount, time discount, rate change, total validation\*
- Quick and easy monitoring: shop staff can check anytime the status, value, and quantity of all validations
- Simplify clerks' operations, without additional hardware requirements

\*Variations may apply, depending on the parking system used.



### 4 PARKING OPERATORS

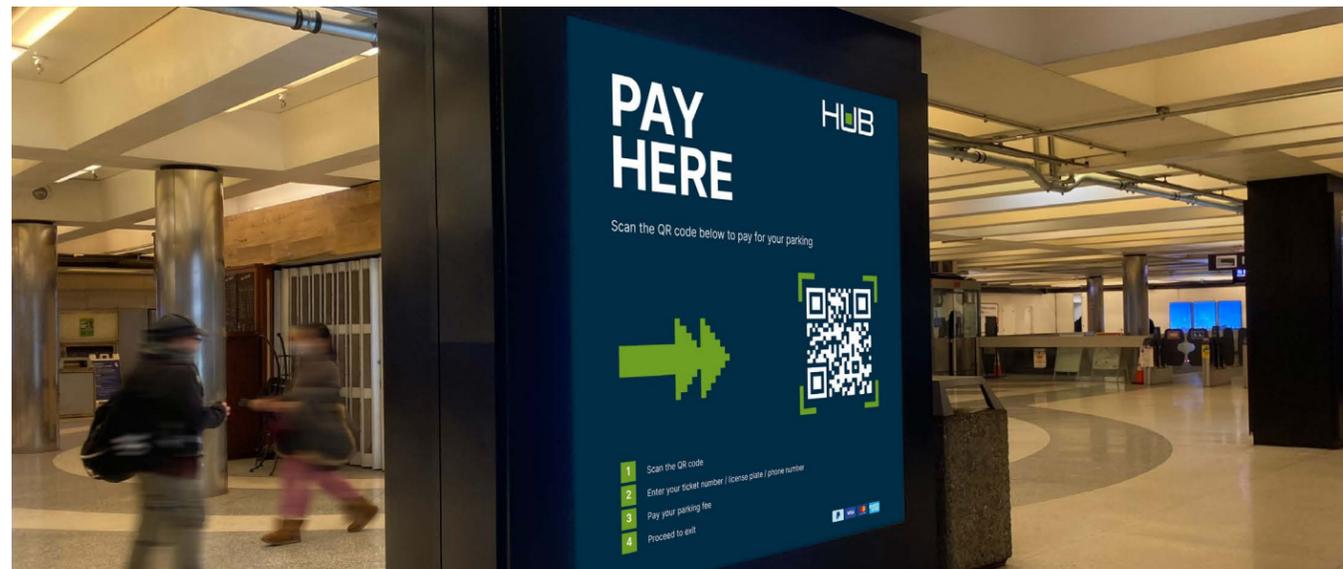
- Synergies with nearby shops and businesses
- Easier forecast and optimization of parking revenues
- Painless and detailed auditing and reporting of the applied validation, powered by JMS Janus Management System
- Higher customer loyalty thanks to an appealing set of discounts
- Improved business performance, through the application of multiple permission levels (merchants; their staff) within a multi-layer validation program



# Treat your parkers with safe and smart payment

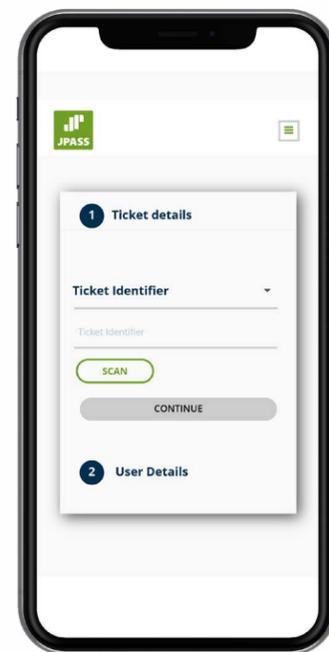
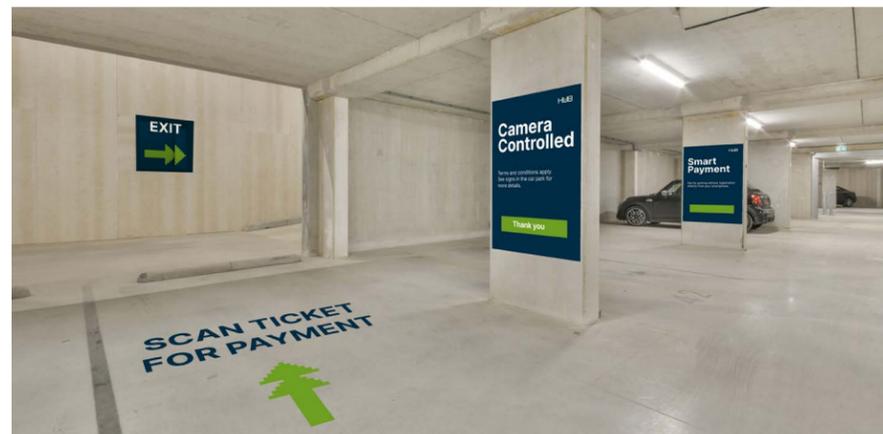


No app required, nor user registration:  
a smart parking payment at its best!



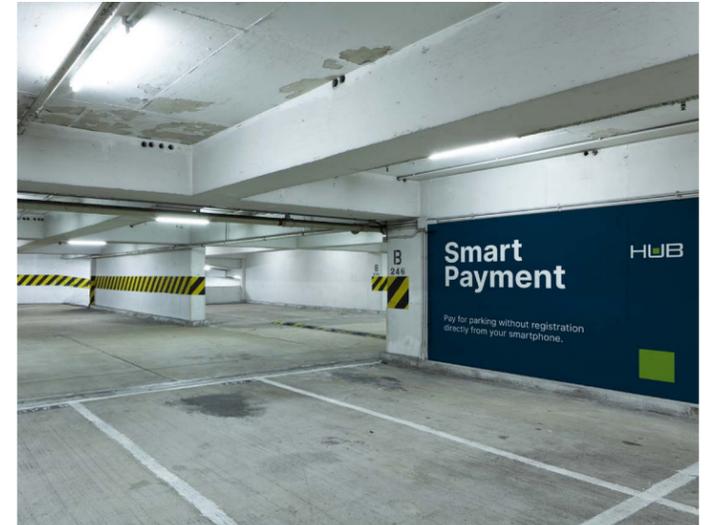
J4Pay is the latest and lightest payment solution for parking owners and operators, which minimizes the machines footprint of the car park. With J4Pay, drivers can scan QR codes displayed on signs, lobby walls monitors or directly from their parking ticket.

J4Pay provides a solution for **gated and gateless facilities** alike, and it is compatible with paper tickets and license plates for ticketless and hybrid sites.



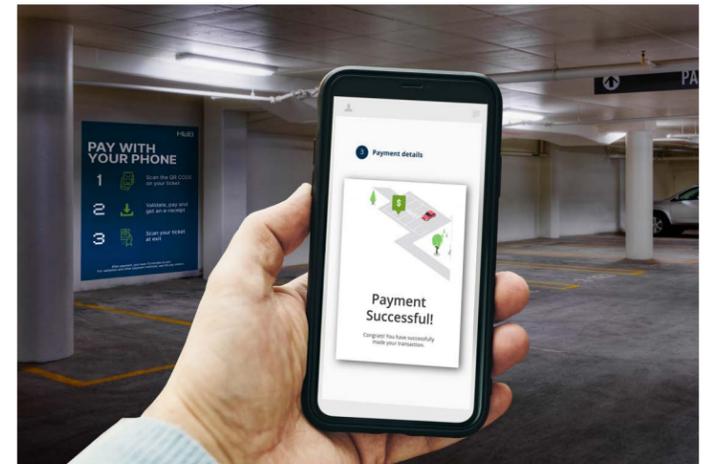
## First-level benefits for parking owners and operators:

- Enhance revenue by offering a cutting-edge mobile payment solution
- Enjoy unified revenue reporting with JMS management system
- Easily manage transactions with the ability to issue refunds and introduce convenience fees
- Save on maintenance costs with hardware-free solution



## Top Benefits for Users:

- No app downloads or registrations required
- User-friendly interface that is simple to use
- Eliminate waiting time with fast and easy payment process
- Receive e-receipts for parking payments and refunds to your email
- Pay the parking ticket from anywhere



Touch-free payment is now as easy as a breeze!

### Ticketed Environment

- 1 Scan the QR code on the parking ticket
- 2 Enter **name and email address** for receipt info
- 3 **Check out** with a few clicks
- 4 Exit by **scanning the ticket**

### Ticketless Environment

- 1 Scan the QR code from the facility signage
- 2 Scan or enter the license plate number
- 3 Enter **name and email address** for receipt info
- 4 **Check out** and you're ready to exit

# Our Services

## Pre-Sales Services

Through local teams, professional training, and corporate service staff, we support our customers through professional applications, first-class service and reliable local assistance. **Being close to our customers** in all respects is our top priority.

Our project management and service teams have **extensive technical expertise** and an average tenure of 9 years installing parking solutions for public and private operators, airports, municipalities, colleges and universities, hospitals and private business.

			
Project management	Consultancy and design	SaaS Software as a Service	PaaS Parking as a Service

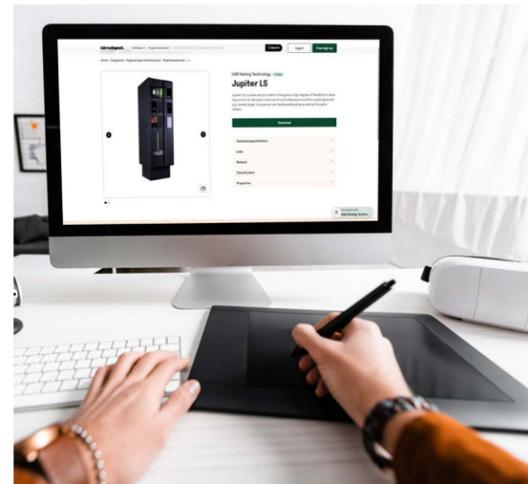
## Your Fast Lane to BIM 3D Files

Building Information Models (BIMs) are 3D files which support decision-making regarding a building, and its parking facility. Digital modeled data allow planners and builders to **visualize concrete infrastructures**, but also to plan and to operate them. No surprise they are increasingly popular among engineers, architects, builders, and contractors.

A shared 3D model provides also a more **cost and time-efficient process**, as well as a significant reduction in errors, which can be discovered much earlier.

Jupiter devices are available as BIM files, at no cost, in the 10 most common planning formats, with 3D visualization and multilanguage product specifications on [bimobject.com](http://bimobject.com).

You can plan an effortless parking experience with HUB system, and reap these benefits:



			
Visual integration of HUB Parking peripherals and barriers into the architectural and perimeter design.	Facilitated preparation of tenders and specifications.	Simple arrangement of planning documentation, and optimized implementation planning.	Higher security for buildings through each construction and operation phase.

## After Sales Services

The design of HUB Jupiter solution is optimized for ease of installation and serviceability, thanks to features that make it easy to service and troubleshoot, while reducing the cost of ownership for the end customer:

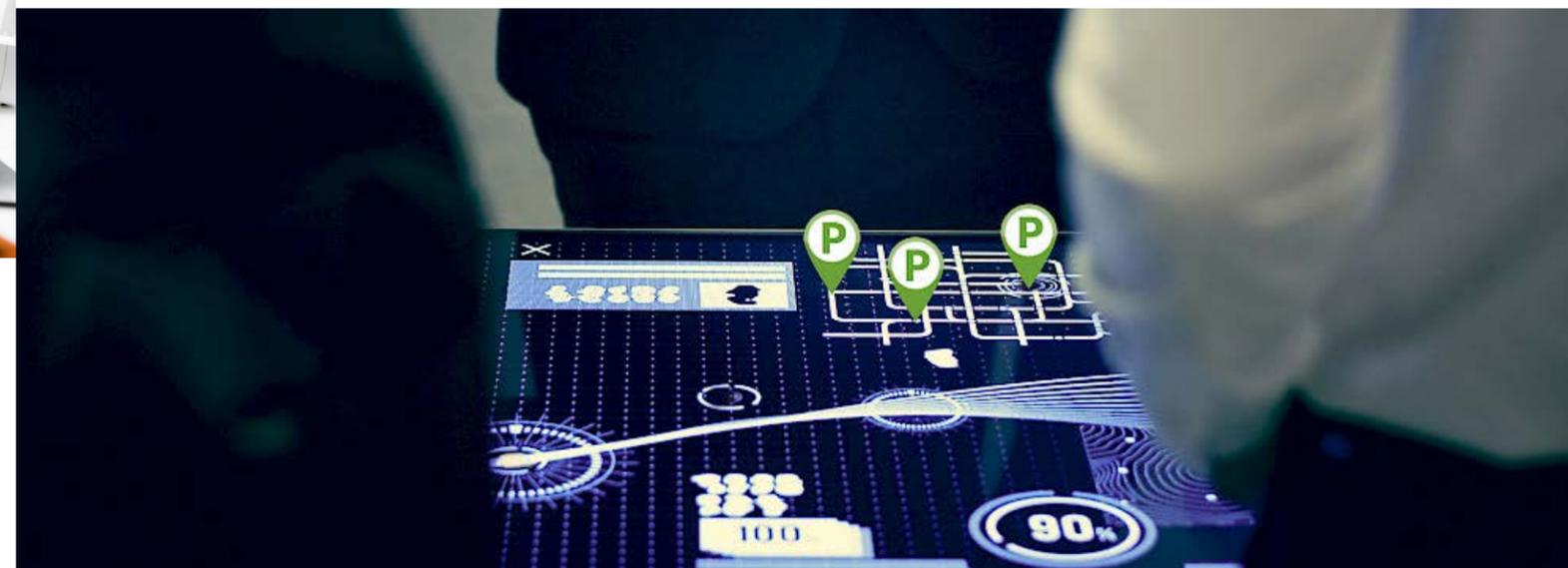
- Visual indicators inside and outside the cabinet
- Labels on the internal components
- Easily pluggable connectors
- Ease of software update
- Remote troubleshooting capabilities
- Full height access doors
- Easy on-field upgradeability

A cutting-edge and reliable customer support has been the foundation of our approach since the beginning and we aim to endure it with **additional service and expertise**.

The extensive experience of our service teams is shared across the organization, through routine analysis of recorded preventive maintenance calls, services gap analysis, incident reporting/response, and resolution timeframes.

This process emphasizes **employee involvement** and **teamwork**, measuring and systematizing processes, and reducing inefficiencies.

				
Customer support	Upgrades	Training	Preventative maintenance	First line maintenance





# Jupiter APS

## AUTOMATED PAY STATION

APS is able to handle multiple combinations of electronic payments, coin and banknotes, vouchers.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	850 x 620 x 1200 (mm)	33 15/32 x 24 13/32 x 47 1/4 (inch)
Weight	200 kg	440,93 lb
Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 2 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	48 W	47 W
Max power (with heater)	410 W	252 W
Absorbed current	0.37 A	0.44 A
Absorbed current (with heater)	1.9 A	2.2 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)

### MAIN INTERNAL COMPONENTS

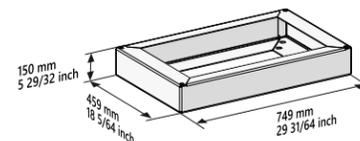
Display	15.6" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets management
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	For thermal paper roll
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment, including pinpad
Coins & Notes	Multiple combinations of cash payment

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Automated Pay Station and its plinth options: 150, 400 or 600 mm height.



# Jupiter APC

## AUTOMATED PAY STATION CASHLESS

APC is a cashless version of the Automated Pay Station. It is a customer-friendly and easy-to-use station that accepts payment by Credit Card only, for ideal customer convenience.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	480 x 450 x 1300 (mm)	18 57/64 x 17 23/32 x 51 3/16 (inch)
Weight	68 kg	150 lb
Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	20 W	28 W
Max power (with heater)	352 W	158 W
Absorbed current	0.2 A	0.3 A
Absorbed current (with heater)	1.6 A	1.5 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	5 +30 (°C)	41 +86 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

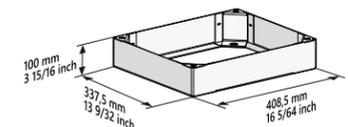
Display	Multiple options up to 10.1" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets management
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	For thermal paper roll
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment, including pinpad
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Automated Pay Station Cashless and its plinth options: 100, 200 or 400 mm height.



# Jupiter APL

## AUTOMATED PAY IN LANE STATION

APL is a pay in lane station that allows payment with credit cards and banknotes and is ideal for installations where car park operators wish to offer payment at the exit of the parking facility. The device is weather-proof and optimized to offer an elevated user experience. It is able to handle electronic payments, banknotes recycling, vouchers, proximity and long range readers, Bluetooth.

### TECHNICAL SPECIFICATIONS

Jupiter APL	Dimensions (LxWxH)	850 x 620 x 1200 (mm)	33 15/32 x 24 13/32 x 47 1/4 (inch)
	Weight	200 (kg)	440,92 (lb)
	Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	100-120 Vac ~ 50-60 Hz	220-240 Vac ~ 50-60 Hz
Max power	47 W	48 W
Max power (with heater)	252 W	410 W
Absorbed current	0.44 A	0.37 A
Absorbed current (with heater)	2.2 A	1.9 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

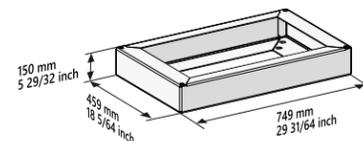
Display	15.6" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets management
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	For thermal paper roll
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment, including pinpad
Coins & Notes	Multiple combinations of cash payment. No coin management

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Automated Pay In Lane Station and its plinth options: 150, 260 or 400 mm height.



# Jupiter LE

## LANE ENTRY STATION

LE is a robust unit that issues barcode tickets at lane entry and reads proximity cards and tags.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	480 x 450 x 1300 (mm)	18 57/64 x 17 23/32 x 51 3/16 (inch)
Weight	68 kg	150 lb
Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	20 W	28 W
Max power (with heater)	352 W	158 W
Absorbed current	0.2 A	0.3 A
Absorbed current (with heater)	1.6 A	1.5 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

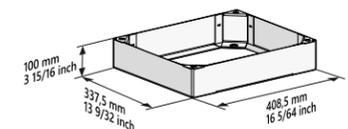
Display	Multiple options up to 10.1" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets printing
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	For pay-at-entry parking
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment, including pinpad
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Entry Station and its plinth options: 100, 200 or 400 mm height.



# Jupiter LS

## LANE SECTION STATION

LS gives a high degree of flexibility to allow the control of vehicles in and out of controlled sectors within a parking facility e.g. nested areas.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	480 x 450 x 1300 (mm)	18 57/64 x 17 23/32 x 51 3/16 (inch)
Weight	68 kg	150 lb
Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	20 W	28 W
Max power (with heater)	352 W	158 W
Absorbed current	0.2 A	0.3 A
Absorbed current (with heater)	1.6 A	1.5 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

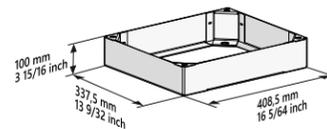
Display	Multiple options up to 10.1" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets management
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles prebooking, 3rd party tickets
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Section Station and its plinth options: 100, 200 or 400 mm height.



# Jupiter LX

## LANE EXIT STATION

LX is a robust unit that can handle multiple access media types, including pre-paid tickets, credit cards, discount tickets at lane exit.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	480 x 450 x 1300 (mm)	18 57/64 x 17 23/32 x 51 3/16 (inch)
Weight	68 kg	150 lb
Housing	Stainless steel INOX AISI 430 2 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	20 W	28 W
Max power (with heater)	352 W	158 W
Absorbed current	0.2 A	0.3 A
Absorbed current (with heater)	1.6 A	1.5 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	5 +30 (°C)	41 +86 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

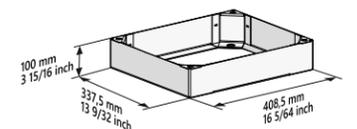
Display	Multiple options up to 10.1" TFT LCD touchscreen
Ticket Processing Unit	Magstripe and barcode tickets management
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	For thermal paper roll
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment, including pinpad
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Exit Station and its plinth options: 100, 200 or 400 mm height.



# Jupiter LES

## LANE ENTRY STATION

LES is a flexible unit that fully controls the lane entry by issuing barcode tickets, and/or checking card, tags.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	280 x 450 x 1300 (mm)	11 1/32 x 17 23/32 x 51 3/16 (inch)
Weight	40 kg	88 lb
Housing	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	17 W	17 W
Max power (with heater)	366 W	170 W
Absorbed current	0.25 A	0.25 A
Absorbed current (with heater)	1.65 A	1.65 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 44	

### MAIN INTERNAL COMPONENTS

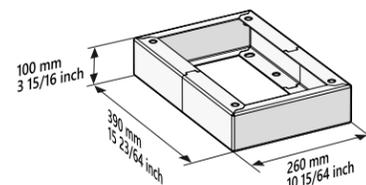
Display	Multiple options up to 7" TFT LCD display
Ticket Processing Unit	Magstripe and barcode ticket printing
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Entry Station and its plinth options: 100 or 200 mm height.



# Jupiter LSS

## LANE SECTION STATION

LSS is a flexible unit designed for nested areas, allowing the control of vehicles in and out of controlled sectors.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	280 x 450 x 1300 (mm)	11 1/32 x 17 23/32 x 51 3/16 (inch)
Weight	40 kg	88 lb
Housing	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	17 W	17 W
Max power (with heater)	366 W	170 W
Absorbed current	0.25 A	0.25 A
Absorbed current (with heater)	1.65 A	1.65 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	5 +30 (°C)	41 +86 (°F)
IP protection class	IP 44	

### MAIN INTERNAL COMPONENTS

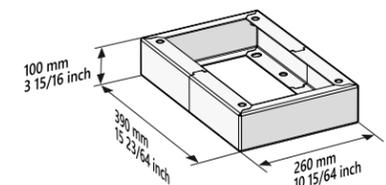
Display	Multiple options up to 7" TFT LCD display
Ticket Processing Unit	Magstripe and barcode ticket reading
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles prebooking, 3rd party tickets
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Section Station and its plinth options: 100 or 200 mm height.



# Jupiter LXS

## LANE EXIT STATION

LXS is a flexible unit that fully controls the lane exit by reading barcode tickets, and/or tags, QR codes.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	280 x 450 x 1300 (mm)	11 1/32 x 17 23/32 x 51 3/16 (inch)
Weight	40 kg	88 lb
Housing	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	
Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	17 W	17 W
Max power (with heater)	366 W	170 W
Absorbed current	0.25 A	0.25 A
Absorbed current (with heater)	1.65 A	1.65 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 44	

### MAIN INTERNAL COMPONENTS

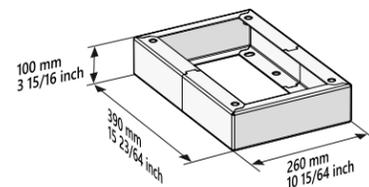
Display	Multiple options up to 7" TFT LCD display
Ticket Processing Unit	Magstripe and barcode ticket reading
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	Optional, thermal paper roll or fanfold
Heater & Ventilation	Settable thermostat
Intercom	Enhanced system with separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



Lane Exit Station and its plinth options: 100 or 200 mm height.



# LES Double Level

## LANE ENTRY STATION

LES Double height is a flexible unit that fully controls the lane entry by reading barcode tickets, and/or tags, QR codes both at the ideal height for cars, vans, and trucks. It is ideal for environments where truck traffic is regular, and operators wish to offer an elevated user experience.

### TECHNICAL SPECIFICATIONS

LES Double Level	Dimensions (LxWxH)	280 x 452 x 2050 (mm)	11 1/32 x 17 51/64 x 80 45/64 (inch)
	Weight	66 (kg)	145.5 (lb)
	Housing material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	
	Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	100-120 Vac ~ 50-60 Hz	220-240 Vac ~ 50-60 Hz
Max power	34 W	34 W
Max power (with heater)	340 W	730 W
Absorbed current	0.5 A	0.5 A
Absorbed current (with heater)	3.3 A	3.3 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 44	

### MAIN INTERNAL COMPONENTS

Display	Two displays total: multiple options up to 7" TFT LCD
Ticket Processing Unit	Barcode tickets reading and printing
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Heater & Ventilation	Settable thermostat
Intercom	Separated speaker and audio outlets, plus pinhole camera capabilities
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified



# LXS Double Level

## LANE EXIT STATION

LXS Double height is a flexible unit that fully controls the lane exit by reading barcode tickets, and/or tags, QR codes both at the ideal height for cars, vans, and trucks.

It is ideal for installations with high truck traffic, where car park operators wish to offer payment at the exit of the parking facility through an elevated user experience.

### TECHNICAL SPECIFICATIONS

LXS Double Level	Dimensions (LxWxH)	280 x 452 x 2050 (mm)	11 1/32 x 17 51/64 x 80 45/64 (inch)
	Weight	66 (kg)	145.5 (lb)
	Housing material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	
	Door material	Stainless steel INOX AISI 430 1,5 mm (RAL 7021)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	100-120 Vac ~ 50-60 Hz	220-240 Vac ~ 50-60 Hz
Max power	34 W	34 W
Max power (with heater)	340 W	730 W
Absorbed current	0.5 A	0.5 A
Absorbed current (with heater)	3.3 A	3.3 A

### WEATHER CONDITIONS

Operating temperature	-20 +50 (°C)	-4 +122 (°F)
Storage temperature	-20 +50 (°C)	-4 +122 (°F)
IP protection class	IP 44	

### MAIN INTERNAL COMPONENTS

Display	Two displays total: multiple options up to 7" TFT LCD
Ticket Processing Unit	Barcode tickets reading
Proximity Reader	Handles multiple card types for subscribers
Scanner	Valiscan handles vouchers, prebooking, 3rd party tickets
Receipt Printer	Thermal paper roll
Heater & Ventilation	Settable thermostat
Intercom	Separated speaker and audio outlets, plus pinhole camera capabilities
EMV Devices	Multiple combinations of electronic payment
Serviceability	Full height doors on both sides

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified



# Parking Pro Barriers

## BARRIER

Parking Pro Series barriers have been developed specifically for applications in heavy-traffic locations.

The range not only offers fast opening times, long life span, reliability and quality, but also outstanding design, extremely low operating costs, ease of use, and a wide range of other features.

In a nutshell, parking barriers are the first choice for the car park operators and solution providers (OEMs) who want to provide a simple and reliable access control system.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	315 x 360 x 915 (mm)	12,4 x 14,2 x 43,9 (inch)
Weight (without boom)	44 kg	97 lb
Lane Width	3,5 m	1,2 ft

### ELECTRICAL SPECIFICATIONS

Mains power voltage	85-264 Vac ~ 50-60 Hz	
Max power	95 W	
Frequency	50-60 Hz	
Service Cycle	100%	

### WEATHER CONDITIONS

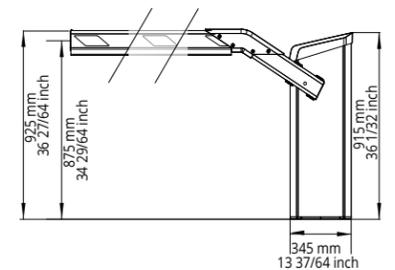
Operating temperature	-30 +55 (°C)	-22+131 (°F)
IP protection class	IP 54	

### CHARACTERISTICS

Integrated 2-channel loop detector	Standard
VarioBoom	Standard
Opening/closing time	1.3 sec
MTBF	10 millions
Control Unit	Standard
Solar battery	Optional
Break-Away Flange	Optional

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
In line with cULus requirements on safety



# Nested Mini Controller

## JUPITER W4E

W4E Nested Mini Controller is a device designed to allow vehicle access to a nested area of the car park. It can be pole or wall mounted to enhance usability. It handles depending on configuration, barcode tickets, proximity cards and Bluetooth.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	152 x 158 x 195 (mm)	5" 31/32 x 6" 7/32 x 7" 43/64 (inch)
Weight	2,6 kg	5.7 lbs
Housing	Plastic & rubber	

### W4E POWER SUPPLY ELECTRICAL SPECIFICATIONS

Mains power voltage	85 - 264 VAC ~ 47-63 Hz	
Absorbed current	0.8 A	1.2 A
Output voltage	24 VDC	
Output current	2.5 A	

### WEATHER CONDITIONS

Operating temperature	0+50 (°C)	+32+122 (°F)
Storage temperature	-20+50 (°C)	-4+122 (°F)
Protection class	IP 43	

### MAIN INTERNAL COMPONENTS

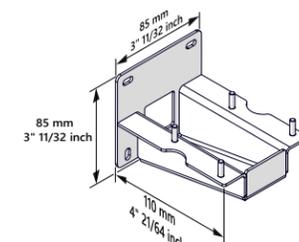
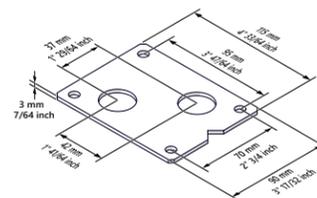
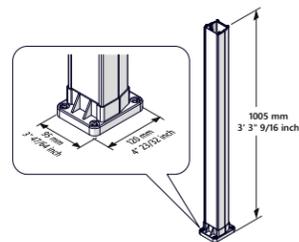
Display	2x16
Scanner	Embedded
Connections	Ethernet, Bluetooth 4.0
Ports	USB, Jack, RJ11, Micro-USB, RJ12, RJ45
Bluetooth connectivity	Optional

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



*Nested Mini Controller and its mounting options*



# Lane Controller

## VEHICLE AND PEDESTRIAN ACCESS DEVICE

Jupiter Lane Controller is a compact control unit that provides fast access to a parking area. It is suitable for external mounting thanks to its IP rated enclosure. When paired to its reading head which enables barcode ticket reading, proxy card scanning or Bluetooth connection, this module is typically used for contract parker lanes, nested areas or door and pedestrian access control. JLC can also be linked to multiple types of long range readers.

### TECHNICAL SPECIFICATIONS

Jupiter LC	Dimensions (LxWxH)	245.6 x 387.5 x 141.5 (mm)	9 43/64 x 15 1/4 x 5 37/64 (inch)
	Weight	3.2 (kg)	7 1/16 (lb)
	Housing	ABS (RAL 7035)	
Reading Head LC	Dimensions (LxWxH)	85 x 200 x 50 (mm)	3 11/32 x 7 7/8 x 1 31/32 (inch)
	Weight	1.5 (kg)	3 5/16 (lb)
	Housing	Stainless steel AISI 430 (Satin stainless steel/ Black)	

### ELECTRICAL SPECIFICATIONS

Jupiter LC	Mains power voltage	220-240 VAC ~ 50-60 Hz	100-120 VAC ~ 50-60 Hz
	Max power	30 W	22 W
	Absorbed current	0.7 A	0.85 A
Reading Head LC	Mains power voltage	24 VDC	
	Max power	3 W	
	Absorbed current	0.15 A	

### WEATHER CONDITIONS

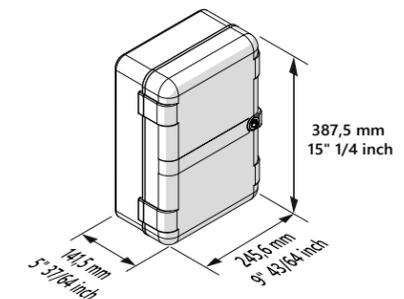
Operating temperature	-20 +60 (°C)	-4 +140 (°F)
Storage temperature	-30 +70 (°C)	-22 +158 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

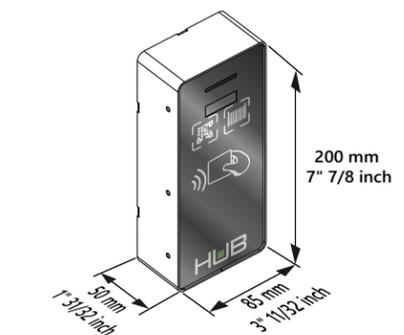
Proximity Reader	Handles multiple card types for subscribers
Scanner	For QR codes, barcodes, 3rd party tickets
Temperature Management	Fan, heater and settable thermostat
Connectivity	Gigabit Ethernet
Ports	USB, Ethernet RJ45, DC adaptor
Operation mode	Self-serve, stand-alone

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified



*Lane Controller*



*Reading Head LC*

# Counting Station

## VEHICLE COUNTING DEVICE

Jupiter Counting Station is a compact control unit that provides fast and precise counting of the vehicles that access a specific parking area. It is suitable for external mounting thanks to its IP rated enclosure. This module is typically used for counting vehicles that transit through a lane. The device interacts with VMS that displays updated parking guidance information to drivers, accordingly.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	245.6 x 387.5 x 141.5 (mm)	9 43/64 x 15 1/4 x 5 37/64 (inch)
Weight	3,15 (kg)	7 23/32 (lb)
Housing	ABS (RAL 7035)	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 VAC ~ 50-60 Hz	100-120 VAC ~ 50-60 Hz
Max power	30 W	22 W
Absorbed current	0.7 A	0.85 A

### WEATHER CONDITIONS

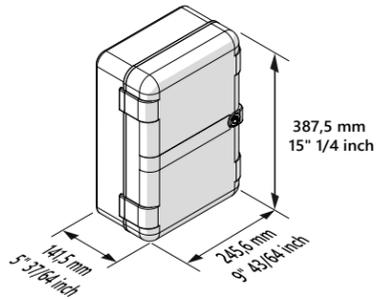
Operating temperature	-20 +60 (°C)	-4 +140 (°F)
Storage temperature	-30 +70 (°C)	-22 +158 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

Temperature Management	Fan, heater and settable thermostat
Connectivity	Bluetooth 5.0; Gigabit Ethernet
Ports	USB, Ethernet RJ45, DC adaptor
Operation mode	Self-serve, stand-alone

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant	
CE Certified	



Counting Station

# Online Validator

## JUPITER W4E

W4E is an online validator that scans barcode tickets and QR codes. It is designed to work as a desktop device and can apply discounts during payments.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	152 x 158 x 195 (mm)	5" 31/32 x 6" 7/32 x 7" 43/64 (inch)
Weight	2,3 kg	5.07 lbs
Housing	Plastic & rubber	

### W4E POWER SUPPLY ELECTRICAL SPECIFICATIONS

Mains power voltage	90-264 VAC ~ 47-63 Hz	
Absorbed current	1.4 A	1 A
Output voltage	24 VDC	
Output current	2.5 A	

### WEATHER CONDITIONS

Operating temperature	0+50 (°C)	+32+122 (°F)
Storage temperature	-20+50 (°C)	-4+122 (°F)
Use location	Indoor	

### MAIN INTERNAL COMPONENTS

Display	2x16
Scanner	Embedded
Connections	Ethernet, Bluetooth 4.0
Ports	USB, Jack, RJ11, Micro-USB, RJ12, RJ45

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant	
CE Certified	
cULus Certification Listed	



# CC600 Online Validator

## ONLINE VALIDATOR

The device performs quick and convenient validation of barcode tickets in both stand-alone and attended scenarios. It is designed to handle high traffic volume validations in transportation, hospitality, retail, and healthcare locations. It can be interfaced with POS grocery store systems or other custom applications. It supports WiFi or Ethernet connection, and can be wall- or desktop-mounted. The Online Barcode Validator works with HUB's existing Web Validation (Liquid Web) and J4M Merchant app.



### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	169 mm x 116 mm x 35 mm	6.6 in. x 4.6 in. x 1.4 in.
Weight	0,320 kg	0,70 lbs

### ELECTRICAL SPECIFICATIONS

Mains power voltage	5.4 VDC/3A	110/220V
Absorbed current	1A	1A
Output voltage	5.4 DC	5.4 DC
Output current	3A	3A

### WEATHER CONDITIONS

Operating temperature	0 to 40 °C	32 to +104 °F
Storage temperature	-40 to +70 °C	-40 to +158 °F
Use location	Indoor	

### MAIN INTERNAL COMPONENTS

Display	5" PCAP multi-touch
Scanner	1D/2D Zebra SE2100 model
Audio	Two microphones, one front firing speaker
Connectivity	Dual band 802.11 a/b/g/n/ac; Bluetooth 5.0; Gigabit Ethernet
Ports	USB, Ethernet RJ45, DC adaptor
Platform	Android Oreo; Qualcomm Snapdragon™ 660
Memory	4 GB RAM, 32 GB Flash
Operation Modes	Self-serve / Stand-alone; attended

### COMPLIANCE & CERTIFICATIONS

UL Certified
Compliant with VESA Standard Mounting

# VPrint XT

## OFFLINE VOUCHER PRINTER

VPrint XT is an offline voucher printer that offers multiple ways of printing a single validation/discount to a ticket: continuous mode (with fan fold tickets or paper roll) or single mode.

Its high flexibility allows to customize the ticket with a distinctive layout, and to associate a specific kind of validation/voucher to each of its 4 buttons.

VPrint XT extended functionalities can be configured and controlled via an intuitive web dashboard: from mass print and counter check, up to ticket layout update.



### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	227 x 127 x 105 (mm)	8 15/16 x 5 x 4 9/64 (inch)
Weight	2,6 (kg)	5,732 (lb)
Housing	Aluminum	

### ELECTRICAL SPECIFICATIONS

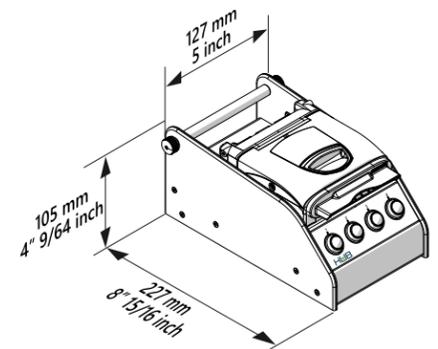
VPrint XT	Mains power voltage	24 VDC	
	Absorbed current	3.75 A	
VPrint XT adapter	Mains power voltage	220-240 VAC ~ 50-60 Hz	100-120 VAC ~ 50-60 Hz
	Max power	90 W	
	Absorbed current	0.6 A	1.3 A

### WEATHER CONDITIONS

Operating temperature	-20 +70 (°C)	-4 +158 (°F)
Storage temperature	-20 +70 (°C)	-4 +158 (°F)

### MAIN INTERNAL COMPONENTS

Printer	Thermal print for paper roll or fan fold tickets
Validator	Up to 4 discounts set up, one per button
Connectivity	Ethernet
Operation Modes	Attended
Options	Vertical support for desktop; adjustable paper holder



# BT6100 Mass Encoder

## MASS ENCODER

The Mass Encoder is a state-of-the-art barcode ticket encoding device, that is ideal for mass encoding a large number of barcode tickets at once. It automatically cuts, encodes and prints barcode tickets to be used as offline validations or multiple entry passes.

Thanks to the JMS integration, it is able to serve one or several parking locations from a single encoding station. The operator is able to fine tune different settings to tailor the best fitting solution for each parking area, providing advantages for the client while managing everything from one control console.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	227 x 127 x 105 (mm)	8 15/16 x 5 x 4 9/64 (inch)
Weight	2,6 (kg)	5,732 (lb)
Housing	Aluminum	

### ELECTRICAL SPECIFICATIONS

BT6100	Mains power voltage	24 VDC	
	Absorbed current	0.8 A	
BT6100 adapter	Mains power voltage	190-264 VAC ~ 47-63 Hz	90-132 VAC ~ 47-63 Hz
	Max power	100 W	
	Absorbed current	4.17 A	

### WEATHER CONDITIONS

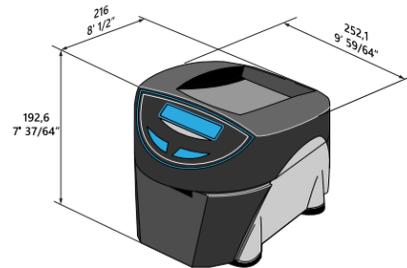
Operating temperature	0 +50 (°C)	32 +122 (°F)
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### MAIN INTERNAL COMPONENTS

Display	2 rows integrated display
Connectivity	Ethernet
Printer	Embedded, as fast as 200mm/s
Ports	USB, RS232
Power supply	Included
Operation Modes	Attended
Options	Paper roll holder; ticket tray

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant
CE Certified
cULus Certification Listed



# Jupiter FCJ & Smart Reader

## FEE COMPUTER JANUS & SMART READER

FCJ is a cashier station that handles ticket validating, issue of receipts, lost tickets, and end of shift statement. Thanks to the touch screen, the cashier can operate in a faster, simpler and more comfortable way.

### TECHNICAL SPECIFICATIONS

FCJ	Dimensions (LxWxH)	338 x 224 x 374 (mm)	13" 5/16 x 8" 13/16 x 14" 23/32 (inch)
	Weight	6 kg	13.22 lbs
	Housing	Plastic & rubber	
FCJ Smart Reader	Dimensions (LxWxH)	152 x 158 x 195 (mm)	5" 31/32 x 6" 7/32 x 7" 43/64 (inch)
	Weight	2,6 kg	5.7 lbs
	Housing	Plastic & rubber	

### ELECTRICAL SPECIFICATIONS

FCJ Adapter	Mains power voltage	100-240 Vac ~ 50-60 Hz	
	Max power	1.7 A	
	Max power (with heater)	24 Vdc	
FCJ Smart Reader Adapter	Mains power voltage	90-264 Vac ~ 47-63 Hz	
	Absorbed current	2.5 A	1 A
	Output voltage	24 Vdc	
FCJ Smart Reader	Mains power voltage	90-264 Vac ~ 47-63 Hz	
	Absorbed current	1.4 A	1 A
FCJ Smart Reader	Output voltage	24 Vdc	
	Output current	2.5 A	

### WEATHER CONDITIONS

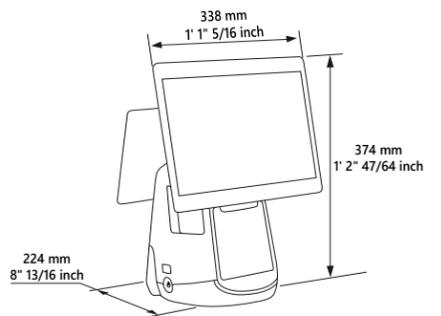
Operating temperature	0+40 (°C)	+32+104 (°F)
Storage temperature	-10 + 50 (°C)	+14+122 (°F)
Use location	Indoor	

### MAIN INTERNAL COMPONENTS

FCJ	Display	15.6" TFT touchscreen 1920 x 1080
	Fee display	Optional 10.1" color display 1024 x 600
	Receipt printer	Embedded, 80-mm wide paper
	Connections	Ethernet, Wi-fi, Bluetooth 4.0
FCJ Smart Reader	Ports	USB, Jack, RJ11, Micro-USB, RJ12, RJ45
	Display	2x16
	Scanner	Embedded
	Proximity reader	Embedded
FCJ Smart Reader	Connections	Ethernet, Wi-fi, Bluetooth 4.0

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant; CE Certified; cULus Certification Listed; Reddot design award 2018 (FCJ)



Fee Computer Janus



FCJ Smart Reader

# Door Mini Controller

## JUPITER W4E

W4E Door Mini Controller is a device designed to allow pedestrian access between the car park and its complementary areas. It can be pole or wall mounted. It handles depending on configuration, barcode tickets, proximity cards and Bluetooth.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	152 x 158 x 195 (mm)	5" 31/32 x 6" 7/32 x 7" 43/64 (inch)
Weight	2,3 kg	5.07 lbs
Housing	Plastic & rubber	

### ELECTRICAL SPECIFICATIONS

Mains power voltage	220-240 Vac ~ 50-60 Hz	100-120 Vac ~ 50-60 Hz
Max power	20 W	28 W
Max power (with heater)	352 W	158 W
Absorbed current	0.2 A	0.3 A
Absorbed current (with heater)	1.6 A	1.5 A

### WEATHER CONDITIONS

Operating temperature	0+50 (°C)	+32+122 (°F)
Storage temperature	-20+50 (°C)	-4+122 (°F)
Protection class	IP 43	

### MAIN INTERNAL COMPONENTS

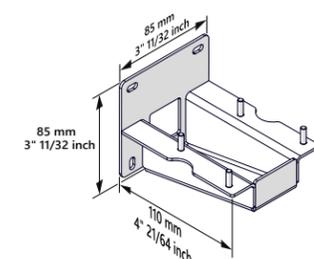
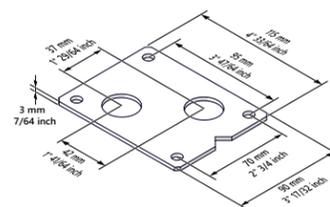
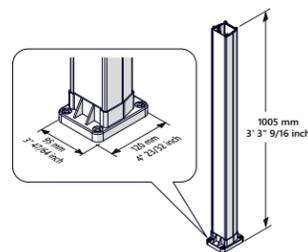
Display	2x16
Scanner	Embedded
Connections	Ethernet, Bluetooth 4.0
Ports	USB, Jack, RJ11, Micro-USB, RJ12, RJ45
Bluetooth connectivity	Optional

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant	
CE Certified	
cULus Certification Listed	



Door Mini Controller and its options



# Access Reader

## PEDESTRIAN ACCESS DEVICE

The Access Reader is an outdoor device that completes the equipment of the parking facility in hospitality, municipalities, universities, retail, healthcare, etc. locations. It is designed to allow parkers and/or pedestrians safe access to the parking facility from unattended entrances, by simply reading their access medium: paper or digital ticket, QR code, proximity card, or via entering license plate digits. It can be wall- or pole-mounted; thanks to a sleek design, it fits beautifully within ancient and modern architectures alike. HUB JPass credentials are also recognized with the Access Reader.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	320 x 90 x 320 (mm)	12 19/32 x 3 35/64 x 12 19/32 (inch)
Weight	7.5 (kg)	16.53 (lb)
Housing	Stainless steel INOX AISI 430 brushed	
Backplate	Stainless steel INOX AISI 430 (RAL 7021)	
Frontplate	PMMA	

### ELECTRICAL SPECIFICATIONS

Access Reader	Mains power voltage	220-240 VAC ~ 50-60 Hz	100-120 VAC ~ 50-60 Hz
	Max power	34 W	46 W
	Absorbed current	0.336 A	0.8 A
Access Reader adapter	Mains power voltage	24 VDC	
	Max power	36 W	
	Absorbed current	1.5 A	

### WEATHER CONDITIONS

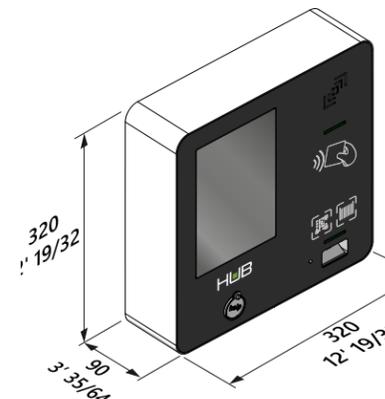
Operating temperature	-20 +60 (°C)	-4 +140 (°F)
Storage temperature	-30 +70 (°C)	-22 +158 (°F)
IP protection class	IP 43	

### MAIN INTERNAL COMPONENTS

Display	7" Touch screen
Intercom	Embedded microphone, loudspeaker and button
Proximity Reader	Handles multiple card types for subscribers
Scanner	For barcodes, smartphones, 3rd party tickets and reservations
Temperature Management	Fan, heater and settable thermostat
Connectivity	Bluetooth 5.0; Gigabit Ethernet
Ports	USB, Ethernet RJ45, DC adaptor
Operation Mode	Self-serve

### COMPLIANCE & CERTIFICATIONS

RoHS Compliant	
CE Certified	

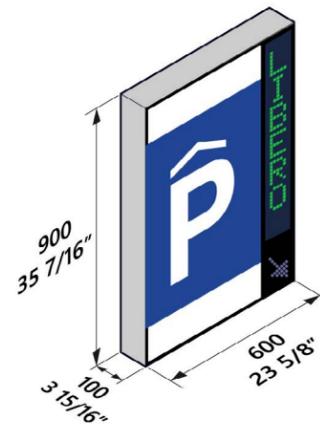


# Variable Message Signs (VMS)

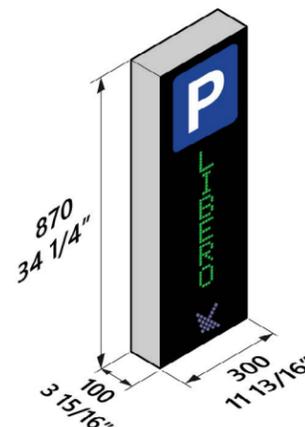
## Accessories

MISTRAL OUT 600 and PBOX 300 are single-sided Variable Message Sign (VMS) Display Modules for outdoor installation.

In addition to the vertical display, MISTRAL OUT 600 features a static area backlit with LED modules and a blank space that can be locally customized. Both models can be wall-mounted or pole-mounted, to fit any installation environment.



MISTRAL OUT 600



PBOX 300

### TECHNICAL SPECIFICATIONS

MISTRAL OUT 600	Dimensions (LxWxH)	600 x 100 x 900 (mm)	23 5/8 x 3 15/16 x 35 7/16 (inch)
	Weight	20 (kg)	44.09 (lb)
	Housing	Extruded aluminum profile	
PBOX 300	Dimensions (LxWxH)	300 x 100 x 870 (mm)	11 13/16 x 3 15/16 x 34 1/4 (inch)
	Weight	10 (kg)	22.05 (lb)
	Housing	Aluminum sheet	

### ELECTRICAL SPECIFICATIONS

MISTRAL OUT RGB	Mains power voltage	110-230 VAC ~ 50-60 Hz	
	Max power (Day light)	80 W	
	Min power (Night)	20 W	
PBOX 300	Mains power voltage	110-230 VAC ~ 50-60 Hz	
	Max power (Day light)	60 W	
	Min power (Night)	15 W	

### WEATHER CONDITIONS

Operating temperature	-25 +60 (°C)	-13 +140 (°F)
Storage temperature	-30 +70 (°C)	-22 +158 (°F)
IP protection class	IP 54	

### MAIN INTERNAL COMPONENTS

Life cycle time (Avg)	100.000 hs	
Display Resolution	RGB led matrix 64x8 px pitch 12,5 mm	
Characters height	For MISTRAL OUT 600: Min. 87 mm - Max. 100 mm For PBOX 300: Min. 62 mm - Max. 75 mm	
Brightness adjustment	Automatic	
Backlight (MISTRAL OUT 600 only)	LED modules 6500K – automatic ignition with ambient light	
Transducers	LED RGB	

### COMPLIANCE & CERTIFICATIONS

CE Certified
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# FCJ Handheld

## HANDHELD FEE COMPUTER

FCJ handheld device is geared to handle patrons' needs in high traffic events: it enables operators to manage parking payments onsite, and allows customers to choose their preferred payment method.

Operators can handle cash and electronic payments (when device is paired with a locally sourced portable device), scan parking tickets, apply validations, address lost ticket issues, and track & arrange all transactions into complex statistics, thanks to JMS reporting functionalities.

### TECHNICAL SPECIFICATIONS

Dimensions (LxWxH)	219.1 x 80 x 17.8 (mm)	8 5/8 x 3 5/32 x 45/64 (inch)
Weight	0.364 (kg)	0.802 (lb)
Housing	Plastic, metal	

### ELECTRICAL SPECIFICATIONS

FCJ Handheld	Battery Voltage	7.6 VDC
	Battery Capacity	2580 mAh
FCJ Handheld adapter	Mains power voltage	100-240 VAC ~ 50-60 Hz
	Max power	72 W
	Absorbed current	0.3 A

### WEATHER CONDITIONS

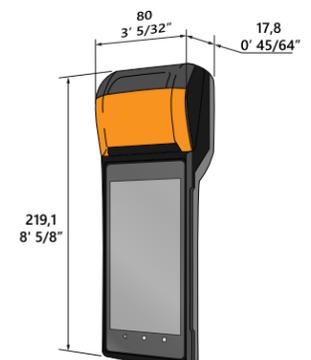
Operating temperature	0 +45 (°C)	32 +113 (°F)
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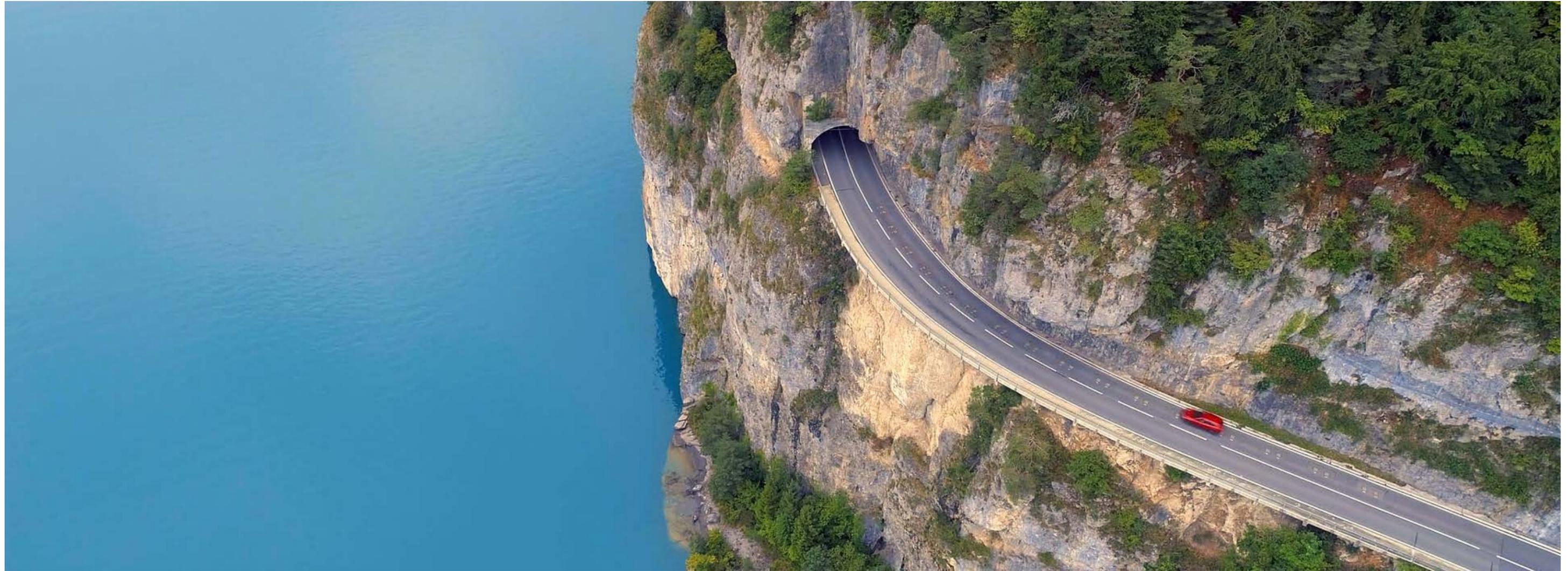
### MAIN INTERNAL COMPONENTS

Display	5.45" HD
Connectivity	Wi-fi, Bluetooth 4.0
Printer	Embedded, up to 70 mm/s
Ports	Type-C USB, OTG
Platform	Android 7.1, Sunmi OS
Memory	1GB RAM
Operation Modes	Attended
Options	Support charging base

### COMPLIANCE & CERTIFICATIONS

CE Certified
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**HUB Parking Technology Global Headquarters**

at FAAC SpA Soc. Unipersonale  
via Monaldo Calari 10  
40069 Zola Predosa, Bologna  
Italy  
+39 051 61 72 4

[info@hubparking.com](mailto:info@hubparking.com)  
[www.hubparking.com](http://www.hubparking.com)

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