



PARCEL LOCKER CENTRAL presents

Autonomous Battery Lockers Review 2025



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NEXT

OFF-GRID

THE **NEXT-GEN** AUTONOMOUS LOCKER

The first **off-grid** parcel locker that combines all the functionality of an electric locker, with the flexibility of a battery-powered one.

- ✓ Full set of features
- ✓ Unlimited autonomy
- ✓ No site adaptation required
- ✓ Best-in-class user experience

SWAPPABLE
& RECHARGEABLE
BATTERY SYSTEM



1 YEAR AUTONOMY
WARRANTY

GUARANTEED

**ALL FEATURES.
NO COMPROMISES.**

 Bloq.it





ABOUT OUR REVIEW

This review focuses on autonomous battery-powered parcel lockers. Traditional lockers have already occupied locations with convenient power grid access, leading to a demand for new, customer-centric locations without reliable power supply—hence the shift to battery-operated lockers. Advances in battery and electronics technology now allow lockers to run sustainably using batteries, often supplemented by solar panels. This evolution meets the growing customer demand for lockers closer to their homes, reducing walking distances.

The industry still faces challenges that require innovation and standardization: from battery type (rechargeable or solar-powered) to customer interfaces (touchscreens, pin pads, or apps). Predictive maintenance will also play a key role, given the anticipated exponential growth of autonomous lockers compared to traditional ones. Increased locker numbers will raise service demands, making optimized maintenance strategies critical.

I would like to thank our main sponsor, Bloq.it, a leading force in last-mile innovation, for their support. They recently launched a new autonomous locker NEXT - one of the most advanced in the industry.

I hope you find this review insightful and turn to it whenever you're considering new autonomous lockers.

Andre V.
Founder and CEO
ParcelLockerCentral



A NOTE BY BLOQ.IT CEO — MIHA JAGODIC

At Bloq.it, we believe autonomous battery lockers will shape the future for unattended delivery solutions. That's why we are proud to sponsor the Autonomous Battery Locker Review 2025 as part of our ongoing commitment to advancing technology and promoting innovation in our industry.

Our own Autonomous Battery Locker, NEXT, is the first full-featured solution on the market, representing a big step forward for the industry. By supporting this report, we hope to help drive the continued evolution of autonomous solutions, while sharing valuable insights and research with industry stakeholders.

We've always admired the work Parcel Locker Central does in highlighting the latest innovations in the sector. It's a pleasure for us to contribute to making this research possible and ensuring these developments reach the wider market.

We look forward to the future of autonomous technology—and are excited to be part of it with you.

Sincerely,

Miha Jagodic
CEO at Bloq.it



Bloq.it NEXT

Company Name:	BLOQ.IT
Web:	Bloq.it
Model/Series:	NEXT
Year of Release:	2024
Country of Manufacture:	Primary manufacturing country: Portugal
Street Address:	Alameda dos Oceanos, Edifício Smart, 1.06.1.1, 4º andar, Parque das Nações, 1990-207
Email Address:	hello@bloq.it
Product Info Link:	NEXT
Locker Dimensions:	Standard: H2100 mm • W900 mm • D600 mm (per module). Although sizing is generally customisable to specific needs.



Description of the locker

NEXT is the next generation of smart lockers, designed to be deployed absolutely anywhere (indoor, outdoor and off-grid) without compromising on user features. It delivers all the functionality of grid-connected lockers while offering the flexibility of a battery-powered system, eliminating the need for additional power sources like solar panels and maximising expansion possibilities.

NEXT operates using either a standard electrical plug or a swappable, rechargeable battery system powered by advanced LiFePO4 lithium technology. With an IP65 rating, it guarantees reliable performance even in harsh environments.

Thanks to advanced on-device power management, the battery-powered NEXT can operate continuously for over 12 months. When battery levels run low, the system notifies operators via software, and allows for a quick battery swap, which only takes a couple of seconds. Discharged batteries are returned to a maintenance depot for recharging and redeployment. Bloq.it provides charging stations for easy maintenance and can also manage the entire process if needed. Each battery requires 9 hours to charge from 0% to 100% - So they can be charged overnight.

NEXT also features an integrated concrete base, enabling deployment in under 15 minutes without the need for site preparation, significantly reducing installation costs and simplifying transportation. Its modular design allows for unlimited configuration possibilities, with no restrictions on the number of extension modules. Manufactured in Europe to the highest durability standards, NEXT is IP44-rated for dust and water resistance and holds C3 anti-corrosion certification in compliance with Steel (EN 10130: 2006 DC01) standards."



Design and Build Quality

Primary Use:	Indoor/Outdoor/Off-grid
Anchoring Options:	3 options - No anchoring required when using the integrated concrete base/Wall-mounted/Anchored on the ground
Operational Temperature Range:	-30°C to +60°C
Locker Dimensions:	H2100 mm · W900 mm · D600 mm (per module)
Weight:	200 / 450 kg (no concrete base / concrete base) (per module)
Average Installation Time:	A 2-module locker with an integrated concrete base can be installed in 15 minutes
Extention modules	Modules are independent and can be re-arranged freely, as long as one Central Module is included. Configurations can be extended per module and new column configurations can also be adjusted to client requiremens.
Extension module connection	Wired via a single cable between columns.
Max extension modules available	NEXT supports an unlimited number of extension modules and features.
Compartments protection from dust and liquid IP44, IP54	Yes - IP44 Certification

Compartement type

	Measures	Amount (main module)	Amount (extension module)	Comment
XS	H85 mm x W180 mm x D650 mm	0	16	Bloq.it can customize column configurations and adapt door sizes based on specific requests.
S	H85 mm x W390 mm x D650 mm	4	0	
M	H180 mm x W390 mm x D650 mm	3	3	
L	H360 mm x W390 mm x D650 mm	1	1	
XL	-	0	0	

Power Supply Information

Power Source:	NEXT can be powered by either a rechargeable battery system or an electric plug.
Battery Lifespan:	10 years
Time without recharging	12 to 18 months of operation between charges, depending on usage and features.
Daily energy consumption (Ah)	200 Ah • 2.56 KWh
Battery type	LiFePO4 lithium batteries, a safer, more sustainable alternative to traditional lithium-ion batteries.
Battery charge duration without any recharge or solar panel (days)	~365 to 540 days (depending on number of features and overall locker usage)
Power Management Description:	NEXT integrates advanced battery management AI protocols, low-power components and communication protocols to optimize energy consumption, enabling extended battery life. It powers advanced features such as touch screen, vision sensors, printers, and infrared scanners in off-grid settings, with a lifespan of 12 to 18 months before battery replacement is required. Battery replacement is quick and seamless, and discharged batteries are recharged off-site using a specialised charger.



Peripherals

Touchscreen:	Default - 10" colour touchscreen
Pinpad:	Optional add-on - For Backup or accessibility purposes
Barcode/QR Code Reader:	Default - Infrared scanner ready to read from multiple media types
Label and Check Printer:	Optional add-on - Multiple printing technologies available (thermal, laser, inkjet, and foiled media)
POS Terminal:	Optional add-on
Video Surveillance System:	Optional add-on
Peripheral Description:	NEXT features a wake-up sensor that detects movement and wakes up the locker when someone approaches it with the intention to use it. The battery version also uses the power of on-demand connectivity to support a variety of user-centric features, including an infrared barcode and QR code scanner capable of reading parcel labels or courier badges in harsh lighting conditions and from multiple media types, such as LCD screens and mobile devices. NEXT also includes a label printer that accommodates various printing technologies, including thermal, laser, inkjet, and foiled media. For additional functionality, NEXT can be equipped with a pinpad for backup or accessibility, a POS terminal for secure transactions, and Surveillance system for enhanced security. Both the electric and battery-powered versions of NEXT are designed to power the same range of features by utilising low-power peripherals. This ensures consistent performance and user experience across all locations, providing the same advanced features and reliability, regardless of the power source and to be ready for the future demands in locker experience, even in 10 years.

Connectivity Options

Primary Method of Connectivity:	GSM Internet SIM Card
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	NEXT supports Bluetooth Low Energy (BLE) communication, though we do not recommend using as the main method of connection / interface, rather our API Cloud infrastructure for mobile app integration allows for the same uses, but with a more secure, less problematic and simple integration.

Service Features

Heartbeat Tests:	Yes, we have developed extensive functionality around the 'health' metrics of our lockers. We can not only continuously monitor the locker being responsive as a whole, but also track individual components performance, automatically either self-fixing issues or creating a ticket integrated within our ticketing system. This has allowed our network to have an overall availability rate of 99.98%.
Remote Restart:	Yes
Automated Service Requests:	Yes

Software Solutions, Integration, and Management Capabilities

Software Adaptations and Connectivity Description:

Bloq.OS can run on any hardware and integrate seamlessly with major courier systems, allowing multiple operators to use the same locker. The NEXT model supports a variety of business models, including Click & Collect and first/last-mile logistics, with options for payment processing and label printing. Additionally, it can function offline, enabling PIN-based pickups without requiring an internet connection. Custom mobile apps can also be integrated via the Bloq.OS API to meet specific client requirements.

TCO (Total Cost of Ownership)

Routine Maintenance Frequency:

Our maintenance needs are below benchmark, although, the need for corrective maintenance has plenty of external factors associated, such as frequency of usage, locker placement location and specific market dynamics. In terms of preventive maintenance, although not necessary, we typically suggest to couple it with the swap of batteries (meaning every 12 to 18 months)

Expected Lifespan:

>10 years

Software License Costs (EUR/month)

The value will depend on scale of the roll-out and the level of features and functionality required.

Battery Replacement Cost:

Battery charger: 0€ (Provided by Bloq.it) / The batteries are rechargeable and swappable, meaning the only cost involved is the operational one of replacing it with a technician.

Additional Information

Company Name:

BLOQ.IT

Web:

Bloq.it



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 Bloq.it

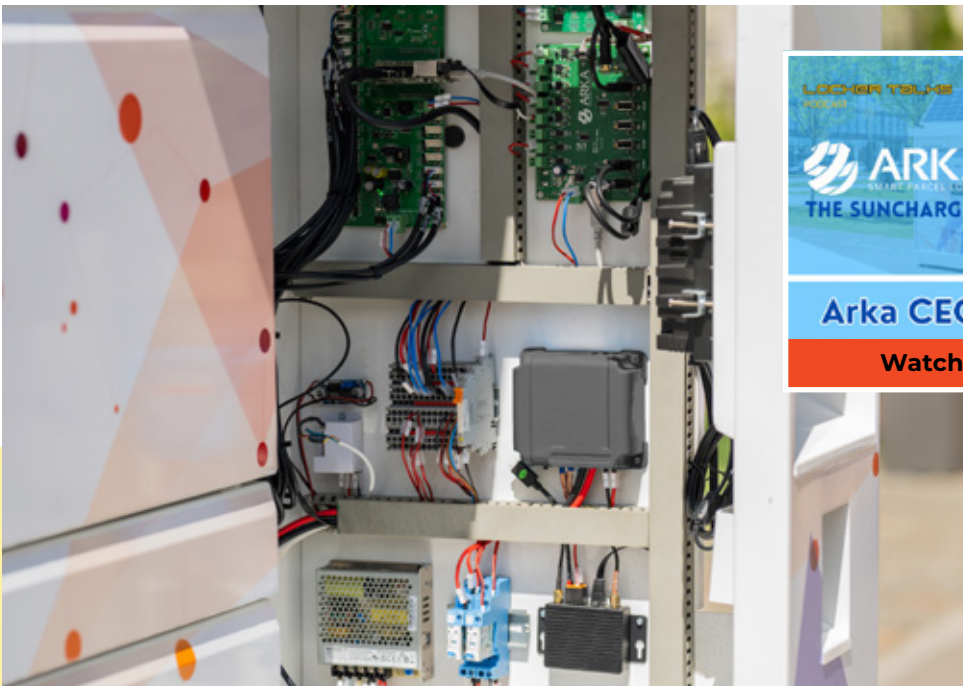




ARKA Smart Parcel Lockers

THE SUNCHARGE LOCKER

Company Name:	ARKA REC S.R.L
Web:	https://www.arka-parcel-lockers.com/
Model/Series:	The SunCharge Locker
Year of Release:	2024
Country of Manufacture:	Romania
Street Address:	Romania, Braşov, Panselor Street, No. 9
Email Address:	sales@arkarobot.com
Product Info Link:	https://www.arka-parcel-lockers.com/products/suncharge-locker
Locker Dimensions:	2110 mm x 1351 mm x 780 mm
Description of the locker	The SunCharge locker is modular and scalable, holding up to 9 slave units, each with two columns. It offers advanced optional peripherals, including an LED touchscreen display, QR scanner, pin pad, CCTV, alarm system, video motioning, POS, LED light system, and a 4G mobile router.



Arka CEO - Lucian Ulmanu

Watch the product video

Design and Build Quality

Primary Use:	Outdoor
Anchoring Options:	Counterweights
Operational Temperature Range:	Min [-25°C] / Max [+65°C]
Locker Dimensions:	1358 W x 2172 H x 672 Depth
Weight:	462 kg / main unit, 662 kg / main unit with concrete counterweight
Average Installation Time:	15 min
Extention modules	Yes
Extension module connection	Yes, Wired
Max extension modules available	8
Compartments protection from dust and liquid IP44, IP54	Yes

Compartment type

	Measures	Amount (main module)	Amount (extension module)
S	440 mm x 85mm x 610 mm	10	on demand
M	440 mm x 180 mm x 610 mm	7	on demand
L	440 mm x 370 mm x 610 mm	3	on demand

Power Supply Information

Power Source:	Battery/Solar/Grid/Rechargeable
Battery Lifespan:	10 years
Time without recharging	10 years (It is a photovoltaic system that supplements daily energy)
Daily energy consumption (Ah)	1,57 Ah
Battery type	Gel battery
Battery charge duration without any recharge or solar panel (days)	Minimum autonomy of 20 days in a production environment (with 0 W generated per day) within a temperature range of -25°C to +45°C.
Power Management Description:	The power management system controls all the features of the smart locker and balances the energy production and the energy consumption in order to ensure more than 10 years of seamless usage of the locker with no battery swap.

Peripherals

Touchscreen:	Yes
Pinpad:	Yes
Barcode/QR Code Reader:	Yes
Label and Check Printer:	On demand
POS Terminal:	On demand, 2 slaves with photovoltaic panels are mandatory
Video Surveillance System:	Yes, two slaves with photovoltaic panels are required; they wake up from sleep mode within 40 seconds.
Peripheral Description:	LED touchscreen display, QR scanner, pin pad, CCTV, alarm system, video surveillance, POS system, LED light system, and a 4G mobile router.

Connectivity Options	
Primary Method of Connectivity:	4G
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	Bluetooth
Service Features	
Heartbeat Tests:	Yes, for each peripheral of the locker
Remote Restart:	Yes, including reset by SMS in case of no 4G signal
Automated Service Requests:	YES
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	Our software is a versatile system designed to manage smart parcel locker networks. It consists of six advanced modules that cater to all operational needs. The software facilitates seamless communication and integration with third-party services and devices, and it supports various locker manufacturers. It is built on five key principles: Agnosticism, User-Friendly Interface, Live Ecosystem, Analytics, and 24/7 Availability. This system serves the needs of B2B, B2C, and C2C users.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	It depends on the options selected by the client.
Expected Lifespan:	12 years (locker)
Software License Costs (EUR/month)	6,5 euro/ month
Battery Replacement Cost:	The battery is replaced every 10 years, and the cost is approximately 200 euros
Additional Information	
Company Name:	ARKA REC S.R.L
Web:	https://www.arka-parcel-lockers.com/



9 Panselor St, Braşov, Romania
sales@arkarobot.com
+40 730 400 607



10-YEAR BATTERY LIFESPAN

no replacement needed

7 OR 12-INCH TOUCHSCREEN DISPLAY

for seamless user experience

ALWAYS-ON ROUTER

for continuous internet connectivity

VIDEO SURVEILLANCE & ALARM SYSTEM

for maximum security



ARKA
SMART PARCEL LOCKERS

arka-parcel-lockers.com



Automation by innovation.

KEBA

LOXMATE

Company Name:	KEBA Handover Automation GmbH
Web:	www.keba.com/logistics
Model/Series:	loxmate parcel locker system
Year of Release:	2025
Country of Manufacture:	EU
Street Address:	Reindlstraße 51, Linz, Austria
Email Address:	kepol@keba.com
Product Info Link:	www.keba.com/loxmate
Locker Dimensions:	min. H 240 cm, W 100 cm, D 64-72 cm
Description of the locker	KEBA's loxmate framework combines highest usability and independence. Choose from different base elements for outdoor and indoor usage, power supply options and touch displays (7" or 12") for customer interaction.



KEBA loxmate Robert Zehetner
Korinna Aschauer

Watch the product video

Design and Build Quality

Primary Use:	Both indoor + outdoor
Anchoring Options:	Ground / Different, flexible counterweights
Operational Temperature Range:	-25 °C up to + 45 °C
Locker Dimensions:	min. H 240 cm, W 100 cm, D 64-72 cm
Weight:	225 - 500 kg depending on base element
Average Installation Time:	15
Extention modules	Yes
Extension module connection	Wired
Max extension modules available	25
Compartments protection from dust and liquid IP44, IP54	IP44 for electronics, IP33 for compartments

Compartment type

	Measures	Amount (main module)	Amount (extension module)
XS	85 x 190 x 610 mm		
S	85 x 440 x 610 mm		
M	180 x 440 x 610 mm	25	28
L	370 x 440 x 610 mm		
XL	750 x 440 x 610 mm		

Power Supply Information

Power Source:	Solar with buffer battery / Grid
Battery Lifespan:	10+ years
Time without recharging	not applicable
Daily energy consumption (Ah)	< 1 Ah
Battery type	Lithium Ion
Battery charge duration without any recharge or solar panel (days)	Up to 4 weeks (without solar yield)
Power Management Description:	loxmate is powered via solar panels or grid. The number of solar panels is flexible, panels and electronics are optimized for low light-locations, work with ambient light and on minimal energy consumption. If there is no solar yield, the battery buffers up to 4 weeks.

Peripherals

Touchscreen:	Yes, 7" (available for both solar and power grid) or 12" (power grid)
Pinpad:	no
Barcode/QR Code Reader:	yes
Label and Check Printer:	optional with grid variant
POS Terminal:	optional
Video Surveillance System:	optional
Peripheral Description:	optional customer roof, optional additional counterweights

Connectivity Options

Primary Method of Connectivity:	LTE
Connectivity On-Demand:	yes
Offline Operation:	yes
Additional Connectivity Methods:	LAN

Service Features

Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes

Software Solutions, Integration, and Management Capabilities

Software Adaptations and Connectivity Description:	KEBA focuses with loxmate on best user experience at low operational costs. A customizable web application runs on the fully functional touch display, offering all users an intuitive user experience, even on self-sustaining lockers. On the back-end, loxmate integrates seamlessly and acts equally in grid or solar variant. Real-time data, monitoring and analytics help to streamline processes. If they should change, adaptations can be done anytime easily and fast.
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TCO (Total Cost of Ownership)

Routine Maintenance Frequency:	once every 5 years
Expected Lifespan:	10+ years
Software License Costs (EUR/month)	depending on scope of integration
Battery Replacement Cost:	non applicable

Additional Information

Company Name:	KEBA Handover Automation GmbH
Web:	www.keba.com/logistics



Rotte Group KFT

ROTTE BATTERY

AUTONOM LOCKER

Gen 2

Company Name:	Rotte Group KFT
Web:	www.rottegroup.eu
Model/Series:	Rotte Battery Autonom locker
Year of Release:	2024
Country of Manufacture:	Hungary
Street Address:	Fekete street nr. 2, Tata, Hungary
Email Address:	attila.szavuj@rottegroup.eu
Locker Dimensions:	2187x1094x606
Description of the locker	The 2nd-gen Autonom Locker is more similar in function and feeling to a standard locker. It comes with a 7/10-inch display, pin pad, scanner, POS, CCTV with constant connectivity. The number of cells can go up to 240.



Design and Build Quality

Primary Use:	Both outdoor and indoor
Anchoring Options:	200kg base counterweight with additional anchoring possibility to the ground and wall
Operational Temperature Range:	Min [-30°C] / Max [+65°C]
Locker Dimensions:	2301x1580x701
Weight:	240-520kg
Average Installation Time:	50min
Extention modules	Yes
Extension module connection	Wired/wireless
Max extension modules available	10 modules
Compartments protection from dust and liquid IP44, IP54	Main cell IP54, cells IP33

Compartment type

	Measures	Amount (main module)	Amount (extension module)	Amount (extension module) type 2
XS/2	95x260x580	0	6	
XS	95x450x580	3		3
S/2	165x260x580	0	6	
S	165x450x580	1		1
M/2	345x260x580	0	6	
M	345x450x580	1		2
L	695x450x580	1		

Rotte side we can offer unique dimension for every projects.

Power Supply Information

Power Source:	Rechargeable battery with solar charging ability with the possibility to connect directly to the grid.
Battery Lifespan:	up to 6 years
Time without recharging	1 year
Daily energy consumption (Ah)	300mah
Battery type	LiFePO4
Battery charge duration without any recharge or solar panel (days)	120-1460
Power Management Description:	The system maintains constant connectivity, with components optimized for low power consumption. The electronics remain in standby mode until triggered by a keypad input or Bluetooth activation. This approach extends battery life, allowing the system to operate efficiently without requiring bulky batteries.

Peripherals	
TFT screen	Yes
Pinpad:	Yes
Barcode/QR Code Reader:	Yes
Label and Check Printer:	under development
POS Terminal:	Yes
Video Surveillance System:	under development
Peripheral Description:	7/10-inch TFT screen , a 12 or 16-key stainless steel keypad, a Barcode/QR code scanner for labels and phone screens, and an upcoming low-power camera system and optional label printer.
Connectivity Options	
Primary Method of Connectivity:	LTE CAT-M
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	NB-IoT / BLE via client/courrier connectivity
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	The system includes a reservation API and comprehensive fleet management tools, available via API and portal, that can be integrated into any parcel management software. With a low-code scripting language, custom UX/UI workflows can be deployed rapidly, cutting development time from weeks to hours. A mobile SDK simplifies the integration of locker features into client and courier apps, while a locker emulator allows partners to test integrations and workflows without needing a physical locker. Fleet management covers devices, locations, locker configurations, user permissions, alerts, peripherals, telemetry, battery and connectivity statuses, and detailed reporting.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	recomended 2 /year
Expected Lifespan:	10 years
Software License Costs (EUR/month)	5-12 (euro)
Battery Replacement Cost:	50-150 (euro)
Additional Information	
Company Name:	Rotte Group KFT
Web:	www.rottegroup.eu

ISLAND OFF GRID LOCKER STATION alfaBOX

Company Name:	ALFA 3, s.r.o.
Web:	www.alfa3.eu
Model/Series:	Island off grid locker station alfaBOX
Year of Release:	2023
Country of Manufacture:	Czech Republic
Street Address:	Husova 247, 538 54 Luze
Email Address:	obchod@alfa3.cz
Product Info Link:	https://www.alfa3.eu/parcel-lockers
Locker Dimensions:	Height - 200cm, depth - 65 cms, width - variable
Description of the locker	We created alfaBOX, a delivery locker box system that optimizes delivery and shipping processes for logistics companies. We offer a rugged, durable device design with intuitive software and operational metrics tracking. Everything is designed for trouble-free operation of the network of parcel boxes with a primary focus on maximum customer satisfaction.



Design and Build Quality

Primary Use:	Outdoor
Anchoring Options:	Wall/Ground/Counterweights - all of it
Operational Temperature Range:	Min [-20°C] / Max [70°C]
Locker Dimensions:	Height - 200cm, depth - 65 cms, width - variable
Weight:	roughly 120 kg per column
Average Installation Time:	[Range in minutes] 30 per column
Extention modules	Yes
Extension module connection	Wired
Max extension modules available	According requested configuration
Compartments protection from dust and liquid IP44, IP54	IP33

Compartment type

	Measures	Amount (main module)	Amount (extension module)
XS	530 x 600 x 200	6	10
S	530 x 600 x 300	5	6
M	530 x 600 x 400	3	5
L	530 x 600 x 600	2	3
XL	530 x 600 x 800	1	2

Power Supply Information

Power Source:	Battery/Solar/Grid/Rechargeable
Battery Lifespan:	over 12 years (up to 7000 charging cycles)
Time without recharging	20 - 30 weeks
Daily energy consumption (Ah)	0,3
Battery type	LiFePo4
Battery charge duration without any recharge or solar panel (days)	20 - 30 weeks
Power Management Description:	The alfaBOX system uses solar energy to power the battery and is equipped with energy-saving electronics with mobile data transmission, display, keyboard and scanner. This enables effective communication with the logistics systems of the operator and also offers a user-friendly environment for both the client and the courier. Battery and system status is monitored using the Zabbix monitoring system.

Peripherals

Touchscreen:	Yes	Label and Check Printer:	Yes
Pinpad:	Yes	POS Terminal:	Yes
Barcode/QR Code Reader:	Yes	Video Surveillance System:	Yes

Connectivity Options

Primary Method of Connectivity:	SIM card (LTE) / LTE- M
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	LAN

Service Features

Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes

Software Solutions, Integration, and Management Capabilities

Software Adaptations and Connectivity Description:	The solar panel powered locker is driven by a script language that uses JSON object structures. This approach allows integrators to effectively modify and customize the device's interface, functionality, and language settings.
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TCO (Total Cost of Ownership)

Routine Maintenance Frequency:	once a year
Expected Lifespan:	minimum 12 years
Software License Costs (EUR/month)	Depending on model
Battery Replacement Cost:	Depending on model

Additional Information

Company Name:	ALFA 3, s.r.o.
Web:	www.alfa3.eu



**Island off grid
locker station alfaBOX**



alfaBOX
Solar-powered autonomous battery locker

Production of parcel lockers

We created the alfaBOX system with intuitive software and a robust, scalable design that optimizes delivery and increases customer satisfaction.

Implemented projects



ALZA

We developed a scalable system of AlzaBoxes, forming one of the largest networks in the country. We supplied part of the electronics and produced 1600 stations with more than 210,000 boxes.

GLS

We have produced more than 600 Parcel Boxes for GLS in both on-grid and off-grid versions and production is underway. Our solution includes both electronics and sophisticated software.



DPD

We produced 250 pickup boxes for DPD with 6000 boxes, powered by a battery recharged by a solar panel. We successfully implemented our electronics and customer software.

BENU

We have produced interior delivery boxes for BENU pharmacies and their e-shop Benu.cz with all common logistics Functions and certified temperature monitoring.



Smart Factory

We can offer our customers a flexible approach, and high-quality efficiency with a smart factory, automated production lines, and integrated management systems.



Development

Every new ALFA 3, s.r.o. project is the result of careful planning and strategic management. Project managers ensure that all phases of development meet high standards.



Electronics

Our electronics and software are a product of strategic cooperation with leading Czech developers. Software and electronic components are designed for maximum reliability.



Industry solutions

We offer exterior and interior lockers that can serve as storage areas for shared workplaces, luggage storage, or building or vehicle key dispensers.

Direct4me d.o.o. **DIRECT4SMART and DIRECT4LEAN**

Company Name:	Direct4me d.o.o.
Web:	www.direct4.me
Model/Series:	Direct4Smart and Direct4Lean
Year of Release:	2021
Country of Manufacture:	Slovenia
Street Address:	Ob železnici 22, Ljubljana, Slovenia
Email Address:	sales@direct4.me
Product Info Link:	www.direct4smart.com / https://www.direct4.me/parcel-spaces/multispace-family
Locker Dimensions:	[Height x Width x Depth] 1976 x 1155 x 724 mm
Description of the locker	Direct4Smart is a fully autonomous, solar-powered parcel locker, featuring touchscreen, 4G connectivity, and barcode/QR-code scanning, while Direct4Lean serves as an efficient, extension-ready locker model.



Direct4.me Tadej Visinski

Watch the product video

Design and Build Quality

Primary Use:	Indoor and Outdoor
Anchoring Options:	Integrated Counterweights, additional anchoring possible
Operational Temperature Range:	Minimum -25°C / Maximum +60°C
Locker Dimensions:	[Height x Width x Depth] 1976 x 1155 x 724 mm
Weight:	440 – 470 kg (depending on model)
Average Installation Time:	Less than 15 minutes
Extention modules	Yes; Direct4Smart used as master module and Direct4Lean as extension modules – fully autonomous
Extension module connection	Wireless
Max extension modules available	10
Compartments protection from dust and liquid IP44, IP54	Control unit IP54, compartments IP44

Compartment type

	Measures	Amount (main module)	Amount (extension module)
XS	100 x 200 x 600	0	0
S	124 x 387 x 667	6 to 27	6 to 27
M	203 x 387 x 667	0 to 4	0 to 4
L	438 x 387 x 667	0 to 7	0 to 7
XL	104 x 200 x 600	0	0

Power Supply Information

Power Source:	Rechargeable Battery Rechargeable Battery + Solar Grid with backup rechargeable battery
Battery Lifespan:	6-8 years
Time without recharging	30+ days with Direct4Smart 2 years with Direct4Lean
Daily energy consumption (Ah)	1,14 Ah/day
Battery type	Deep Cycle Gel Industrial Battery
Battery charge duration without any recharge or solar panel (days)	30+ days with Direct4Smart 2 years with Direct4Lean
Power Management Description:	Direct4Smart lockers offer both grid-powered or solar-powered battery operation, with consistent power management across both systems, enabling remote monitoring and efficient energy use via 4G connectivity.

Peripherals	
Touchscreen:	Yes
Pinpad:	No (touchscreen)
Barcode/QR Code Reader:	Yes
Label and Check Printer:	No
POS Terminal:	Yes
Video Surveillance System:	Yes
Peripheral Description:	Direct4Smart lockers come with standard peripherals like a touchscreen, barcode/QR code reader, and an optional POS terminal. Additionally, they feature interior compartment and exterior front panel illumination.
Connectivity Options	
Primary Method of Connectivity:	4G
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	Mobile phone of the courier or consignee
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	Direct4Smart offers full integration via open APIs and supports customizable workflows. Direct4.me provides a complete solution, including backend systems, portals, mobile apps, and integration interfaces. Customers can either use the entire software suite for an out-of-the-box experience or integrate specific features into their existing IT systems. Software is adaptable to specific workflows and regional needs, offering customizable user interfaces, reporting, and system management for multi-country operations. It also supports integration with third-party peripherals and payment systems.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	Recommended once a year
Expected Lifespan:	10+
Software License Costs (EUR/month)	No license fees, software provided on SaaS model, pricing depending on scope of features used
Battery Replacement Cost:	30
Additional Information	
Company Name:	Direct4me d.o.o.
Web:	www.direct4.me

INTRODUCING

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Qlocx SMART LOCKER IoT

Company Name:	Qlocx AB
Web:	www.qlocx.com
Model/Series:	Qlocx Smart Locker IoT
Year of Release:	2023
Country of Manufacture:	Sweden/Lithuania
Street Address:	Birger Jarlsgatan 57A, Stockholm, Sweden
Email Address:	info@qlocx.com
Product Info Link:	https://qlocx.com/products/qlocx-smart-locker-iot/
Locker Dimensions:	H2165 x W1100 x D624 mm
Description of the locker	Robust 1.5 mm steel with anti-graffiti coating, designed for harsh outdoor use. Locally sourced and produced, 95% of materials from within the EU. No wiring or ground preparation needed. Suitable for indoor and outdoor use.



Design and Build Quality

Primary Use:	Both outdoor & indoor
Anchoring Options:	Concrete foundation (outdoor), wall/floor (indoor)
Operational Temperature Range:	minus 30 [°C] / plus 75 [°C]
Locker Dimensions:	H2165 x W1100 x D624 mm
Weight:	444 kg (outdoor) 244 kg (indoor)
Average Installation Time:	10 min
Extention modules	Yes
Extension module connection	Wired
Max extension modules available	15
Compartments protection from dust and liquid IP44, IP54	Yes

Compartment type

	Measures	Amount (main module)	Amount (extension module 1)	Amount (extension module 2)	Amount (extension module 3)
S	90 x 280 x 580	7	6		18
M	155 x 280 x 580	8	8	24	10
L	332 x 280 x 580	5	6	3	4
XL	509 x 280 x 580	2	2		

Power Supply Information

Power Source:	Rechargeable battery with solar (outdoor) or Primary battery / grid connection (indoor)
Battery Lifespan:	15-20 years
Time without recharging	No need to recharge
Daily energy consumption (Ah)	<0,1 Ah
Battery type	NiMH rechargeable battery
Battery charge duration without any recharge or solar panel (days)	120 days (rechargeable battery standard setup with solar power)
Power Management Description:	Self-sustaining energy system with remote monitoring and ultra-low power consumption. Engineered by Qlocx, produced in Sweden. 8W solar for outdoor use. Option for higher battery capacity for indoor lockers.

Peripherals

Touchscreen:	Yes	Label and Check Printer:	Yes
Pinpad:	Yes	POS Terminal:	Optional
Barcode/QR Code Reader:	Yes	Video Surveillance System:	Optional
Peripheral Description:	7" or 10" LED touchscreen options. Label printer handles over 6,000 labels without paper change. Integrated parcel detection sensors to confirm the presence of parcels within the locker.		

Connectivity Options

Primary Method of Connectivity:	LTE-M IoT network
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	Optional 4G connection as backup

Service Features

Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes

Software Solutions, Integration, and Management Capabilities

Software Adaptations and Connectivity Description:	Native and web app suites for drivers, consumers, and installation/maintenance. API and SDK integration tools. Locker and parcel management system. Operates on LTE-M network with 4G as backup. Remote-controlled for service and support. No peripherals required for web app-only use.
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TCO (Total Cost of Ownership)

Routine Maintenance Frequency:	No need for frequent maintenance
Expected Lifespan:	15-20 years
Software License Costs (EUR/month)	20 - 40 € depending on setup
Battery Replacement Cost:	0 €

Additional Information

Company Name:	Qlocx AB
Web:	www.qlocx.com





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Web: <https://www.qlocx.com>

E-mail: info@qlocx.com

LOKO ECOLOGIS

Company Name:	MODERN EXPO
Web:	https://modern-expo.eu/en
Model/Series:	Loko EcoLogis
Year of Release:	2024
Country of Manufacture:	Poland, Ukraine
Street Address:	Rivnenska Street, 4, Lutsk district, Lutsk, Ukraine
Email Address:	info@modern-expo.com
Product Info Link:	Not updated on the website
Locker Dimensions:	2000 x 1070 x 700 mm



Description of the locker

Finding suitable locations often poses challenges, including location preparation, electrical grid connectivity, and complex assembly. Traditional lockers require external power, limiting the number of potential installation sites, especially in rural areas. Ecologis is here to solve these problems

With Ecologis, there's no need for location preparation or assembly, as it comes pre-assembled and operates independently of the electrical grid with its own battery installed. Deployment is quick and flexible.

In addition, Ecologis is highly scalable, allowing extension with additional modules. It offers multiple pickup options through a QR code scanner, Pin Pad or touch screen. These options help our clients to satisfy 60+ years old customers. Our system allows simultaneous use by both customers and couriers to perform more interactions in less time

Ecologis is a new standard on the market in terms of security – it corresponds to RC3 burglar resistance class, a must-have solution for off-grid machines.

Ecologis is a complex ecosystem with apps for service team, courier and customer, enabling seamless UX and fast customization according to a client's brandbook

This makes it the most advanced technological solution in the parcel locker business today.



Design and Build Quality

Primary Use:	Primarily designed for Outdoor, can be used Indoor as well
Anchoring Options:	Counterweights in default, set of anchoring can be ordered additionally. Wind stability is 120 km/h without anchoring
Operational Temperature Range:	-25 C до +50 C
Locker Dimensions:	2000 x 1070 x 700 mm
Weight:	560 kg
Average Installation Time:	20 mins, as EcoLogis is assembled from the factory
Extention modules	Yes, double columns extensions
Extension module connection	Wired
Max extension modules available	3
Compartments protection from dust and liquid IP44, IP54	For postal compartments is IP23, for main compartment is IP54

Compartment type

	Measures	Amount (main module)	Amount (extension module)	Comment
XS	100 x 185 x 675	8	1	Layout of compartment can be easily configured, as Modern Expo uses rivet construction, which is easy to adapt to client's dimensions.
S	100 x 440 x 675	6	8	
M	210 x 440 x 675	4	7	
L	430 x 440 x 675	2	2	
XL	650 x 440 x 675	1	0	

Power Supply Information

Power Source:	Battery Non rechargeable and for solutions with Touch screen we use rechargeable without solar
Battery Lifespan:	8 years
Time without recharging	2-5 years depending on the peripherals used
Daily energy consumption (Ah)	10
Battery type	"Rechargeable battery: LiFePo Non-rechargeable battery: Air-Zinc"
Battery charge duration without any recharge or solar panel (days)	345 mAh per day in sleep mode and with some usage limits
Power Management Description:	Low Power Modes: Components reduce power or shut down when idle. Battery Monitoring: The system tracks battery levels, optimizing performance and preventing critical discharge with timely maintenance alerts.

Peripherals

Touchscreen:	Yes, we propose Touchscreen or Pin Pad
Pinpad:	Yes, we propose Touchscreen or Pin Pad
Barcode/QR Code Reader:	Yes
Label and Check Printer:	No
POS Terminal:	No
Video Surveillance System:	No
Peripheral Description:	GSM with SIM Cards for real-time syncing BLE Beacon for energy-efficient app operations. Numeric Pin Pad with Braille for accessible passcode entry. QR-Code Scanner for faster parcel handling, especially for couriers. Touch Screen as an alternative to the Pin Pad for passcode entry or parcel creation. These features ensure usability and energy efficiency.

Connectivity Options

Primary Method of Connectivity:	BLE
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	BLE, LTE, NB IoT

Service Features

Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes

Software Solutions, Integration, and Management Capabilities

Software Adaptations and Connectivity Description:

We offer both tailored and complete solutions to clients, with an API covering all necessary locker functions, either directly or via our central server. Supported communication protocols include BLE, MQTT, and HTTP. Integration models are flexible based on client needs, and security meets current market standards. The API can be extended if needed, and remote updates allow software modifications for installed machines. We also provide mobile apps and a certified parcel management system, enabling use without integration.

TCO (Total Cost of Ownership)

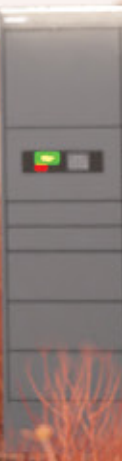
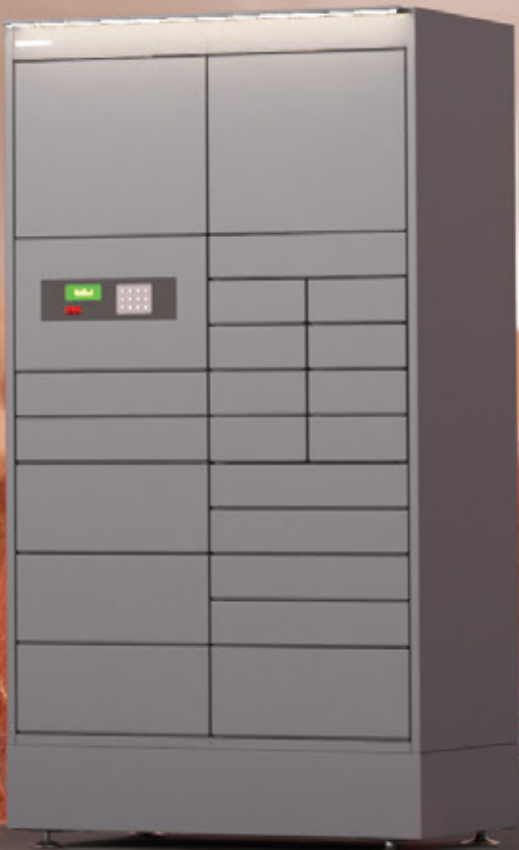
Routine Maintenance Frequency:	1 Time per year
Expected Lifespan:	8 years
Software License Costs (EUR/month)	25 per 1 locker
Battery Replacement Cost:	250 EUR

Additional Information

Company Name:	MODERN EXPO
Web:	https://modern-expo.eu/en

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Cleveron CLEVERON 354

Company Name:	Cleveron AS
Web:	cleveron.com
Model/Series:	Cleveron 354
Year of Release:	2023
Country of Manufacture:	Estonia
Street Address:	Reinu tee 48, Viljandi, Estonia
Email Address:	info@cleveron.com
Product Info Link:	https://cleveron.com/products/cleveron-354/
Locker Dimensions:	2.2 x 1 x 0.8m
Description of the locker	Cleveron 354 is an outdoor parcel locker that can be installed where no cable can reach. It can handle extreme weather conditions, ensuring operational reliability in temperatures ranging from -20 to +45 °C. It features a 4-inch screen and a pinpad.



Design and Build Quality

Primary Use:	Indoor/Outdoor
Anchoring Options:	Counterweights or anchoring brackets
Operational Temperature Range:	Min -20°C / Max 45°C
Locker Dimensions:	2.2 x 1 x 0.8m
Weight:	From 325 kg to 365 kg, depending on the layout
Average Installation Time:	30 min per module
Extention modules	Yes
Extension module connection	Wireless
Max extension modules available	3
Compartments protection from dust and liquid IP44, IP54	IP33, for control unit IP44

Compartment type

	Measures	Amount (12 slot main and extra module)	Amount (16 slot main and extra module)	Amount (24 slot main and extra module)
XS	90 x 165 x 660	0	0	8
S	90 x 400 x 660	4	4	8
M	200 x 400 x 660	4	10	6
L	430 x 400 x 660	2	2	2
XL	650 x 400 x 660	2	0	0

Power Supply Information

Power Source:	Battery
Battery Lifespan:	8 years
Time without recharging	8 years
Daily energy consumption (Ah)	Open to share directly to customer
Battery type	Open to share directly to customer
Battery charge duration without any recharge or solar panel (days)	2920 days / 8 years
Power Management Description:	Open to share directly to customer

Peripherals

Touchscreen:	No
Pinpad:	Yes
Barcode/QR Code Reader:	No
Label and Check Printer:	No
POS Terminal:	No
Video Surveillance System:	No
Peripheral Description:	Combination of display and pinpad to send and retrieve parcels

Connectivity Options	
Primary Method of Connectivity:	Open to share directly to customer
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	Open to share directly to customer
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	No
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	Easy to integrate over API
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	Dependent on agreement
Expected Lifespan:	8-10 years
Software License Costs (EUR/month)	Dependent on agreement
Battery Replacement Cost:	Dependent on agreement
Additional Information	
Company Name:	Cleveron AS
Web:	cleveron.com



Cleveron 354



Danish design
Global convenience



Flexity by Lanksti Linija

FLEXITY

ECO LOCKER /

FEL-01

Company Name:	Flexity by Lanksti Linija
Web:	https://flexity.lt/
Model/Series:	Flexity Eco Locker / FEL-01
Year of Release:	2024
Country of Manufacture:	Lithuania
Street Address:	Pramones str. 14, Alytus, Lithuania
Email Address:	info@flexity.lt
Product Info Link:	https://flexity.lt/product/parcel-lockers/
Locker Dimensions:	2120 x 964 x 633 mm
Description of the locker	The FEL-01 is the latest addition to the Flexity locker family. Fully autonomous with minimal compromises, it runs on a rechargeable battery. Equipped with a compact solar panel, it offers a 10-year lifespan without manual recharging.



Design and Build Quality

Primary Use:	Outdoor and indoor
Anchoring Options:	Concrete base with additional anchoring possibility to the ground and wall
Operational Temperature Range:	-30° to +60°
Locker Dimensions:	2120 x 964 x 633 mm
Weight:	400 kg per module
Average Installation Time:	10 minutes
Extension modules	Yes
Extension module connection	Wired
Max extension modules available	9
Compartments protection from dust and liquid IP44, IP54	Center console IP55, Locker compartments IP33

Compartment type

	Measures	Amount (main module)	Amount (extension module)	Amount (extension module 2)
XS	89 x 198 x 610 mm	0	0	10
S	89 x 418 x 610 mm	10	10	5
M	193,5 x 418 x 610 mm	5	6	6
L	402,5 x 418 x 610 mm	3	3	3
XL	600 x 418 x 610 mm	on request	on request	on request
2XL	920 x 418 x 610 mm	on request	on request	on request
Mailbox compartment	193,5 x 418 x 610 mm	on request	on request	on request

* Flexity offers a flexible compartment configuration and layout. It is possible to make custom main/extension modules made-to-fit customer's needs.

Power Supply Information

Power Source:	Rechargeable battery with solar charging ability with the possibility to connect directly to the grid.
Battery Lifespan:	10 years
Time without recharging	2 years
Daily energy consumption (Ah)	0.05 Ah
Battery type	LiFePO4
Battery charge duration without any recharge or solar panel (days)	Equal to battery lifespan, which is about 10 years
Power Management Description:	The system is always online, with components custom designed for minimal power use. Electronics stay in standby until activated by a keypad press or Bluetooth. This design ensures long battery life without needing large batteries.

Peripherals	
Touchscreen:	Yes
Pinpad:	Yes
Barcode/QR Code Reader:	Yes
Label and Check Printer:	Coming soon
POS Terminal:	Coming soon
Video Surveillance System:	Coming soon
Peripheral Description:	The solution offers a 7" screen, 12 or 16-key vandal-proof keypad, Barcode/QR code scanner for labels and phone screens, with more peripherals coming soon.
Connectivity Options	
Primary Method of Connectivity:	CAT-M
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	NB-IoT
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	The reservation API and fleet management tools (API and portal) integrate with any parcel management software. A low-code scripting language enables UX/UI flows in hours. The mobile SDK simplifies locker integration into apps. A locker emulator lets partners test functions without a demo kit or locker. Fleet management covers devices, locations, users, alerts, and telemetry.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	1
Expected Lifespan:	10
Software License Costs (EUR/month)	
Battery Replacement Cost:	160
Additional Information	
Company Name:	Flexity by Lanksti Linija
Web:	https://flexity.lt/

Rovenma ROVLOCKER R7 BATTERY POWERED

Company Name:	Rovenma Electronics
Web:	https://www.rovenma.com/
Model/Series:	Rovlocker R7 Battery Powered
Year of Release:	2024
Country of Manufacture:	Turkiye
Street Address:	Universiteler Mah. 1596. Cad. HacettepeTeknokent 6.Ar-Ge Safir Bloklar A Blok Kat:9 No:28 Ankara 06800
Email Address:	sales@rovenma.com
Product Info Link:	https://www.rovenma.com/rovlocker/
Locker Dimensions:	2033x1981x663 mm
Description of the locker	Rovenma released a flexible power management and a new design electronic lock in Rovlocker R7 Battery Powered. The new Rovlocker stands out with its advanced technology and high-quality hardware/software.



Design and Build Quality

Primary Use:	Indoor/Outdoor
Anchoring Options:	Ground
Operational Temperature Range:	Min - 40°C/ Max 65°C
Locker Dimensions:	2033x1981x663 mm
Weight:	650kg (4 modules, 43 doors)
Average Installation Time:	45 minutes
Extention modules	Yes
Extension module connection	Wired/wireless
Max extension modules available	25
Compartments protection from dust and liquid IP44, IP54	Yes

Compartment type

	Measures	Amount (main module)	Amount (extension module A)	Amount (extension module B)
XS	160 x 100 x 450 mm	0	14	0
S	360 x 100 x 550 mm	3	0	7
M	360 x 160 x 550 mm	2	2	2
L	360 x 336 x 550 mm	1	1	1
XL	x	x	x	x

Power Supply Information

Power Source:	Battery / Off-grid
Battery Lifespan:	2 years
Time without recharging	2 years
Daily energy consumption (Ah)	10
Battery type	Chargable and Non-Chargable
Battery charge duration without any recharge or solar panel (days)	730 days
Power Management Description:	The key innovation of Rovlocker R7 Battery Powered has the optional installation of a mains electric module; allowing to change the power management systems from battery-powered to off-grid.

Peripherals

Touchscreen:	Yes
Pinpad:	Optional
Barcode/QR Code Reader:	Yes
Label and Check Printer:	Optional
POS Terminal:	Optional
Video Surveillance System:	Yes
Peripheral Description:	The system enhances functionality and user experience with a high-brightness screen for a better outdoor visibility. The Rovlocker R7 also has energy efficient solar-powered LED lighting pre-roofs and main roof.

Connectivity Options	
Primary Method of Connectivity:	3G/4G Modem
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	Wi-Fi and Bluetooth
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	The software operates on any OS or OS-free platforms, supporting on-premise or SaaS backends. An embedded low-power controller ensures firmware management, while a dual SIM-enabled 3G/4G modem provides connectivity.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	Every 6 months
Expected Lifespan:	15 Years
Software License Costs (EUR/month)	Up to the project scale
Battery Replacement Cost:	Up to the battery option
Additional Information	
Company Name:	Rovenma Electronics
Web:	https://www.rovenma.com/

PARCELSEA COMMUNITY LOCKER

Company Name:	Parcelsea
Web:	www.parcelsea.com
Model/Series:	Parcelsea Community Locker
Year of Release:	2024
Country of Manufacture:	Estonia
Street Address:	Värvi 5, Tallinn, Estonia
Email Address:	info@parcelsea.com
Product Info Link:	https://parcelsea.com/solutions
Locker Dimensions 3 modules:	1950mm x 1124mm x 414mm
Locker Dimensions 1-2 modules:	1380mm x 1124mm x 414mm
Description of the locker	The community locker is modular, installable on various surfaces, and expandable from 9 to 23 compartments. Its vertical layout saves space, runs on battery, and supports customizable peripherals.



Design and Build Quality

Primary Use:	Indoor & Outdoor
Anchoring Options:	Anchoring possibility to the wall & ground, with 160kg base counterweight
Operational Temperature Range:	Min [-20°C] / Max [60°C]
Locker Dimensions:	1950mm x 1124mm x 414mm
Weight:	355 Kg (3 modules + concrete)
Average Installation Time:	20minutes if assembled on site. 10 minutes if dropped off fully assembled. Not accounting ground preparation on soft soil.
Extention modules	Yes
Extension module connection	Wired
Max extension modules available	3
Compartments protection from dust and liquid IP44, IP54	Yes

Compartment type

	Measures H W D	Amount (main module)	Amount (extension module)
XS	235 x 90 x 380	3	max 59
S	500 x 90 x 380	4	max 28
M	500 x 210 x 380	2	max 12
L	500 x 450 x 380	0 (optional)	max 6
XL	-	-	-

Power Supply Information

Power Source:	Rechargeable battery
Battery Lifespan:	2000 recharge cycles
Time without recharging	1 year
Daily energy consumption (Ah)	0.01 Ah with the standard setup
Battery type	Lithium iron phosphate battery (LiFePO4)
Battery charge duration without any recharge or solar panel (days)	1 year
Power Management Description:	The community locker controller stays online 24/7, with electronics in standby until activated. The battery is replaced annually or when charge drops below 30%, either during maintenance or by couriers.

Peripherals	
Touchscreen:	Optional, TFT display
Pinpad:	Yes
Barcode/QR Code Reader:	Optional
Label and Check Printer:	No
POS Terminal:	Optional
Video Surveillance System:	Optional (Coming soon)
Peripheral Description:	The standard community locker features an OLED screen and 12-key keyboard but can also support touchscreens, scanners, POS, and surveillance. These additions would lower battery life, requiring a larger battery.
Connectivity Options	
Primary Method of Connectivity:	LTE CAT-M
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	NB-IoT / BLE via client/courier connectivity
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	Our system offers a full locker management solution, tracking devices, locations, configurations, access, alerts, peripherals, telemetry, battery, connectivity, and reports. It includes reservation and fleet management APIs, a portal, and a mobile SDK for easy app integration. A locker emulator allows remote testing, while a low-code scripting language enables fast UX/UI customization in hours.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	Once a year
Expected Lifespan:	10 years
Software License Costs (EUR/month)	Pricing depends on configuration and customer needs.
Battery Replacement Cost:	Pricing depends on configuration and customer needs.
Additional Information	
Company Name:	Parcelsea
Web:	www.parcelsea.com



Jetbeep Inc. **JETBEEP AUTONOMOUS LOCKER PLATFORM**

Company Name:	Jetbeep Inc.
Web:	www.jetbeep.com
Model/Series:	Jetbeep autonomous parcel locker technology provider
Year of Release:	2024
Country of Manufacture:	Estonia
Street Address:	Pärnu mnt 10, 10140, Tallinn, Estonia
Email Address:	valery.chekalkin@jetbeep.com
Product Info Link:	https://www.jetbeep.com/parcel-lockers
Locker Dimensions:	any
Description of the locker	Jetbeep provides an autonomous parcel locker platform that features microcontrollers and software, allowing for integration in any metal design. We build autonomous parcel lockers that provide the same functionality as grid-powered ones.



Design and Build Quality

Primary Use:	Both outdoor and indoor
Anchoring Options:	200kg base counterweight with additional anchoring possibility to the ground and wall
Operational Temperature Range:	-25 +60
Locker Dimensions:	2120x964x633mm
Weight:	any
Average Installation Time:	10 minutes
Extention modules	Yes
Extension module connection	Wired (just one wire)
Max extension modules available	9
Compartments protection from dust and liquid IP44, IP54	Center console IP55, Locker compartments IP33

Compartment type

	Measures (this is just one example)	Amount (main module), more standard options available.	Amount (extension module) more standard options available.
XS	89 x 198 x 610 mm	0	0
S	89 x 418 x 610 mm	10	10
M	193,5 x 418 x 610 mm	5	6
L	402,5 x 418 x 610 mm	3	3
XL	507 x 418 x 610 mm	0	0

Power Supply Information

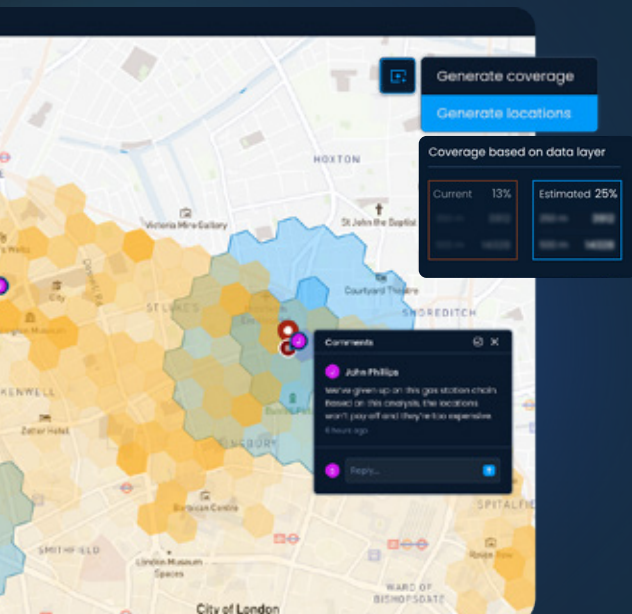
Power Source:	Rechargeable battery with solar charging ability with the possibility to connect directly to the grid.
Battery Lifespan:	0.3-4 years
Time without recharging	1 year
Daily energy consumption (Ah)	0.005 - 0.25 AH (depending on connectivity and peripherals)
Battery type	LiFePO4
Battery charge duration without any recharge or solar panel (days)	120-1460 (depending on connectivity, peripherals and battery capacity)
Power Management Description:	The system can be always online, with components chosen for minimal power use. Electronics stay in standby until activated by a keypad press or Bluetooth. This design ensures long battery life without needing large batteries.

Peripherals	
Touchscreen:	Yes, TFT display
Pinpad:	Yes
Barcode/QR Code Reader:	Yes
Label and Check Printer:	No
POS Terminal:	Yes
Video Surveillance System:	Coming soon
Peripheral Description:	Our solution features a 7-inch TFT screen for enhanced user experience, a 12 or 16-key stainless steel keypad, a Barcode/QR code scanner for labels and phone screens, and an upcoming low-power camera system.
Connectivity Options	
Primary Method of Connectivity:	LTE CAT-M
Connectivity On-Demand:	Yes
Offline Operation:	Yes
Additional Connectivity Methods:	NB-IoT / BLE via client/courier connectivity
Service Features	
Heartbeat Tests:	Yes
Remote Restart:	Yes
Automated Service Requests:	Yes
Software Solutions, Integration, and Management Capabilities	
Software Adaptations and Connectivity Description:	There is a reservation API and fleet management capability (API and portal) that can be integrated into any parcel management software + mobile SDK for app integration. A low-code scripting language that enables the implementation of any UX/UI flows within hours instead of weeks/months. A locker emulator - to test functionality and flows without the demo kit or a locker at clients'/partners' locations. The fleet management is managing all the devices, locations, locker layouts, users and rights, alerts, all peripherals management, device telemetry, battery statuses, connectivity statuses, reports, etc.
TCO (Total Cost of Ownership)	
Routine Maintenance Frequency:	1
Expected Lifespan:	10 years
Software License Costs (EUR/month)	3-10 [EUR]
Battery Replacement Cost:	50-150 [EUR]
Additional Information	
Company Name:	Jetbeep Inc.
Web:	www.jetbeep.com

Finding the right locations for parcel lockers

As companies aim to build a parcel locker network, they often focus on finding high-potential locations ahead of the competition. However, limited locations and a manual scouting process can make it difficult to decide which ones to pick.

To address this challenge, Mily Tech has developed OOH delivery analytics, a solution that simplifies and automates building and managing parcel locker networks.



- **Automate network planning**

Model your network at 10x speed. Get optimized location recommendations, test ideas with your team and dismiss low-potential locations without having to actually install them.

- **Answer spatial questions with data**

By combining various data layers, the platform enables the evaluation of location potential, including points of interest such as partnering locations and competition.

- **Track performance for continuous success**

Understand how your network is doing and learn how to make improvements, with insights delivered to you round the clock.

Read how a leading parcel delivery company in CEE found ideal parcel locker locations while saving 700+ hours of manual work.

We invite you to [book a demo](#) and see how OOH delivery analytics can help you reach your network goals.

Buyer's Guide to Choosing Autonomous Parcel Lockers

Autonomous parcel lockers are at the middle of innovation and are becoming a part of modern last-mile logistics, providing an innovative and convenient solution for managing parcel deliveries. However, selecting the right autonomous locker system is a multifaceted decision that requires careful evaluation of several factors. This guide aims to help you navigate the essential considerations to ensure your chosen locker system meets your operational needs, remains cost-effective, and delivers long-term value. Here, we explore the key elements to consider when choosing autonomous parcel lockers, with a focus on the Total Cost of Ownership (TCO) throughout the product lifecycle.

Power Autonomy

One of the most critical aspects of autonomous parcel lockers is power autonomy. Battery life is a crucial factor, especially if lockers are to be installed in areas without access to the power grid. Advanced battery technologies, such as lithium-based systems, can last several years between replacements, ensuring reliable performance with minimal maintenance. Solar power integration is another significant consideration, as it reduces dependence on grid power and allows for installations in remote locations. It is essential to ensure that solar panels are efficient, even in low-light conditions, to maintain consistent operation. Systems equipped with energy-efficient components help minimize power usage during idle periods, and features like power-saving modes and remote power management further enhance efficiency.

Scalability

Scalability is vital for businesses that experience fluctuating parcel volumes. A modular design is ideal, as it allows you to add or remove locker modules based on changing needs. This flexibility is particularly important for businesses anticipating growth or seasonal surges in demand. Ease of expansion is another key consideration—new modules should be seamlessly integrated into the existing system without causing operational disruptions. Customization is also beneficial, as adjustable configurations, such as varying compartment sizes, enable the system to accommodate different parcel types and user groups.

Connectivity

Reliable connectivity is essential for seamless operation. Lockers with multiple connectivity options, such as LTE or IoT networks, ensure uninterrupted communication, even in remote areas. Offline capabilities are also crucial, as they allow the system to continue operating during network outages, ensuring that parcels can still be retrieved or delivered. Robust API integration is important for integrating the locker system with existing logistics platforms, enabling real-time tracking, inventory management, and customer notifications. While advanced connectivity features may lead to higher initial and operational costs, they enhance system reliability, reduce maintenance trips, and improve customer satisfaction, ultimately lowering indirect expenses and contributing to overall cost savings.

Durability and Maintenance

The durability of autonomous parcel lockers is directly linked to their ability to withstand environmental conditions. For outdoor installations, it is important to select lockers with high Ingress Protection (IP) ratings to guard against dust, rain, and extreme temperatures. The materials used in construction, such as weatherproof steel or aluminum, should be chosen for their ability to minimize wear and tear, thereby extending the locker's lifespan. Routine maintenance should be minimal, and systems that offer self-diagnosis for issues like low power or component malfunctions can save both time and money.

Although lockers with robust weatherproofing may have higher upfront costs, their longer lifespan and reduced maintenance requirements significantly lower the TCO. Remote

diagnostics and self-maintenance features further reduce the need for on-site servicing, minimizing operational disruptions and associated costs.

User Interface and Experience

A user-friendly interface is essential for both customers and couriers. Lockers that support mobile apps, touchscreens, or PIN-based access methods enhance usability and improve the overall experience. Advanced features, such as real-time parcel tracking, user notifications, and parcel detection sensors, can further enhance user satisfaction. The interface should also be customizable to accommodate specific business needs, such as incorporating branding or modifying workflows for different types of users.

A well-designed user interface reduces the need for customer support and improves service efficiency, indirectly reducing costs. Additionally, customizable interfaces may support multiple business models, such as Click & Collect, increasing revenue potential and maximizing the value of the locker system.

Security and Monitoring

Security is a critical consideration when choosing autonomous parcel lockers. Integrated video surveillance or motion detectors can deter theft and provide real-time security updates, which is especially important in high-traffic areas. Remote monitoring features, such as automated service alerts, help quickly identify and resolve issues before they disrupt operations. Secure access methods, such as PIN codes, RFID tags, or biometric authentication, are essential for ensuring the safety of stored parcels.

Enhanced security features may increase initial costs, but they help reduce long-term expenses related to theft, damage, and misuse. Automated monitoring and alert systems also lower the need for manual oversight, reducing the risk of costly downtime and enhancing the overall value of the locker system.

Software and System Integration

A robust backend management system is essential for effective locker network operation. The management portal should provide comprehensive monitoring of locker usage, user permissions, and performance reporting, especially for businesses managing multiple locations. Be aware of any recurring software licensing fees and understand how these costs will scale with the locker network. Locker systems with flexible software that allows workflow modifications or new feature integration via API offer greater long-term value.

Total Cost of Ownership (TCO) in Autonomous Lockers

When evaluating autonomous lockers, it is important to consider the Total Cost of Ownership, which goes beyond the initial purchase price. Initial acquisition costs include hardware, installation, and setup, and modular systems often offer more flexibility and affordability in this regard. Operational costs, such as power consumption, data fees, and software licensing, also play a major role in determining TCO. Energy-efficient designs and solar power integration can help manage these expenses.

Maintenance and repair costs are another critical factor. Systems with remote diagnostics and automated service requests can significantly reduce these costs by minimizing the need for manual intervention. End-of-life costs should also be taken into account—evaluating the lifespan of the system and its components, along with considering recycling options for expired units, particularly for batteries, can help keep TCO in check.

Conclusion

Selecting the right autonomous locker system requires a comprehensive analysis of key factors such as power autonomy, scalability, durability, and user experience. To minimize the Total Cost of Ownership, it is crucial to invest in a flexible, energy-efficient, and robust system that strikes the right balance between initial costs and long-term savings. By carefully evaluating each aspect of the locker's lifecycle, you can choose a solution that delivers maximum value over time, ensuring efficiency and customer satisfaction in your last-mile logistics operations.