

RevoBricks LLC,
46, đường D13, phường Tây Thạnh,
Thành phố Hồ Chí Minh, Việt Nam
Mã số thuế: 0318320587

RBC1 the revolutionary and most affordable cabinet, with access control.
Made in Vietnam.

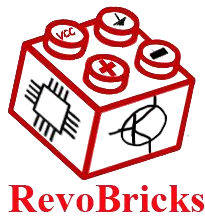


Picture 1. Powder-coated steel cabinet Picture 2. Stainless steel cabinet

Automatically detects all check-out and check-in transactions
Reads all standard-compliant RAIN RFID tags (ISO/IEC 18000-63)
Stores transaction data on the Revobricks server or integrates via REST
API with ERP and asset management systems (pre-integrated with
Dolibarr and Snipe-IT).

Optional features:

- HF RFID reader
- Receipt printer



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- UV-C disinfection module
 - Touchscreen 10.1 inch

The item group (e.g., size) is clearly displayed on the screen for easy cabinet selection. Users authenticate using an access card or fingerprint. After RAIN RFID-tagged items are removed or returned and the door is closed, the system automatically detects the changes and records the transaction in the database. The typical transaction time is about 5 seconds. The process is shown on the LED display and a receipt can be printed with a single button press.

All components are designed to ensure maximum reliability and long-term operation.

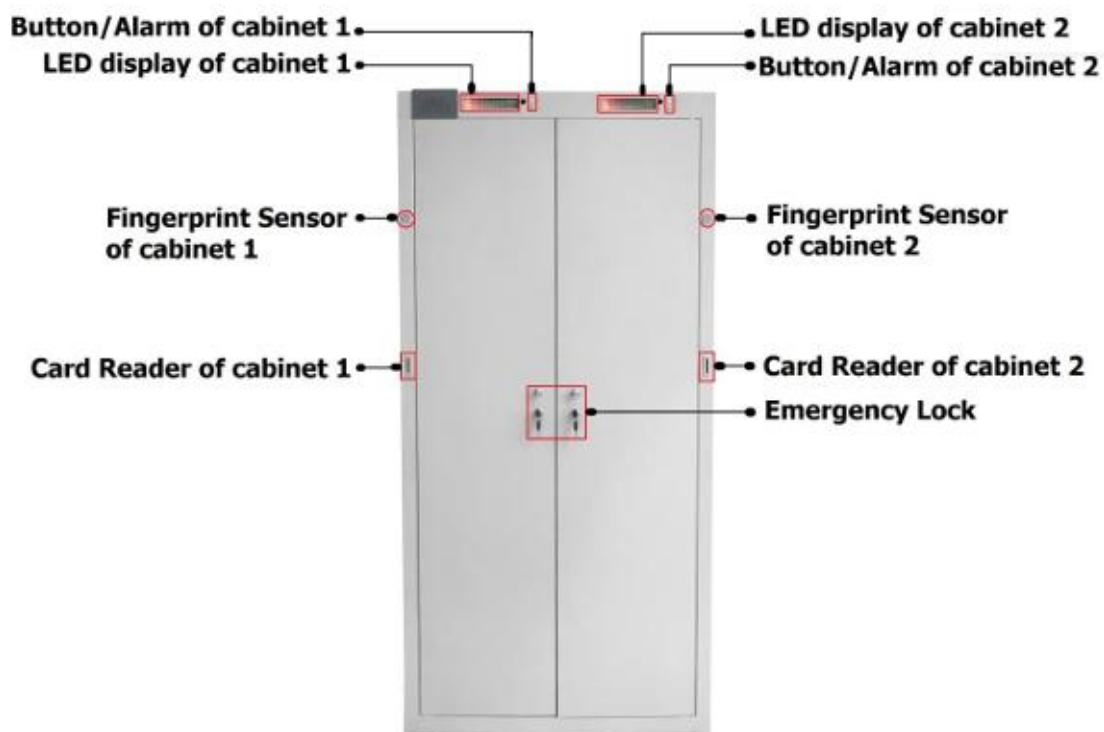
TECHNICAL SPECIFICATIONS TABLE

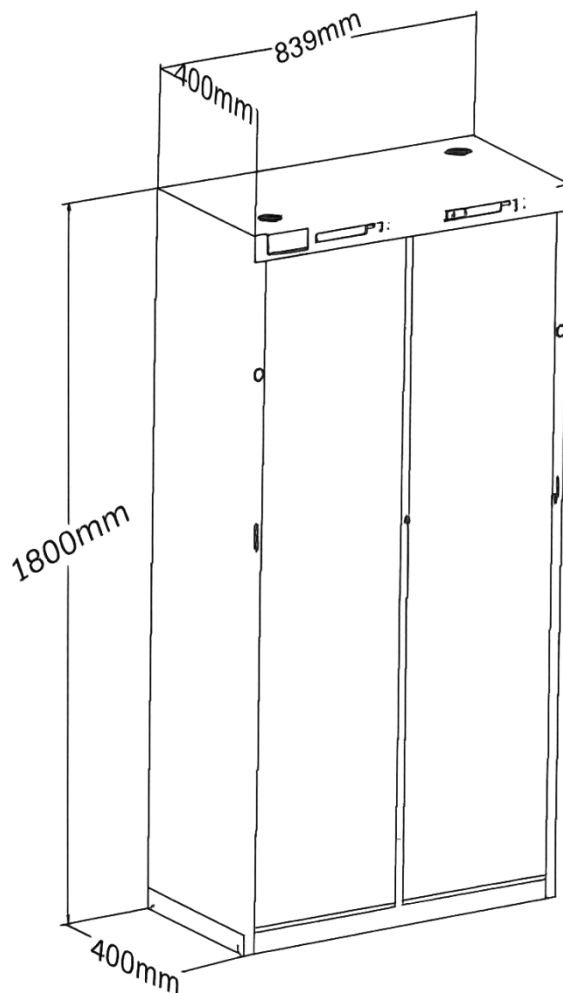
I. OVERVIEW

Components	RBC1 –xxxxxxx(see order codes)
Doors	2 doors
Technology	RAIN RFID 868 / 915 MHz
Authentication	RFID Card (ISO/IEC 14443) / Finger sensor
Touchscreen	Optional (see order codes)
Printer Receipt	Optional (see order codes)
UVC	Optional (see order codes)
Power Consumption	
Without UVC	Maximum power consumption: under 10W, typically 1W
With UVC	Maximum power consumption 24W, typically 1W
With touchscreen	Power does not exceed 11W
Dimensions (WxDxH)	839 x 400 x 1800 (mm)
Capacity	Depending on the size of the items. Example for uniform: 1 cabinet can serve up to 50 employees (25 per door) for each work shift)
Material	Powder-coated steel/ Stainless steel
Weight	39 kg
Color	Grey
Installation	Installed indoors

Software management	Revobricks Centralized Management Software, Dolibarr, Snipe-IT, any REST-aware host.
Network connection	LAN/ WIFI
Operating time	Continuous (24/7)
Shelf size	43 x 49 cm
Loading capacity per shelf	30 kg
Cabinet firmware	Bare Metal (CabinetBIOS, Revolution Engineering Vietnam)
Country of origin	Vietnam

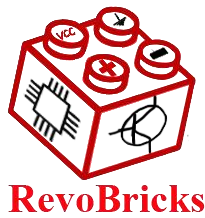
II. COMPONENTS





1. Card reader / Finger Print Sensor





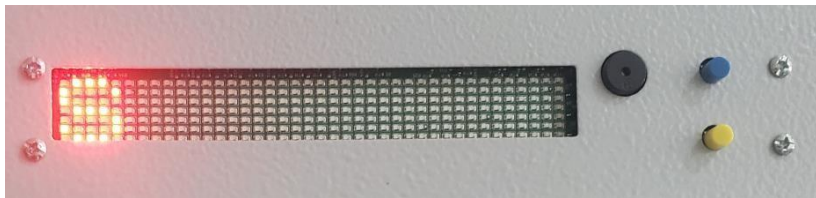
Supports standard ISO/IEC 14443 cards and optional fingerprint authentication.

User names, card IDs, and cabinet access rights are managed via the web-based software.

The card reader has no moving parts, ensuring an almost unlimited service life.

Fingerprint sensor is not available in the EU version.

2. LED Display



Displays the item group, such as uniform size or department, when idle.

Displays the transaction status and item quantity during operation.

Displays error messages (door not closed, card not removed)

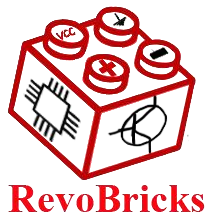
3. Printer Receipt



Print the latest transaction with a single button press, including:

- Username
- Transaction type (CheckIn/ CheckOut) and Quantity.
- Time

4. Buttons / Alarm



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Blue button: Check the quantity of items inside.

Yellow button: Print transaction information (optional).

Alarm: Alerts if the door is left open or the card is not removed

5. Internal shelves.



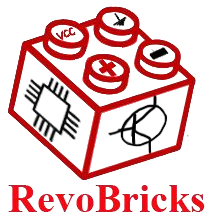
Modular shelf equipped with tool-free, removable modular shelves and optional hanging bars.

Configurable from 1 to 6 shelves (4 shelves typical for uniforms)

Made of smooth acrylic glass for easy cleaning.

6. Emergency Lock





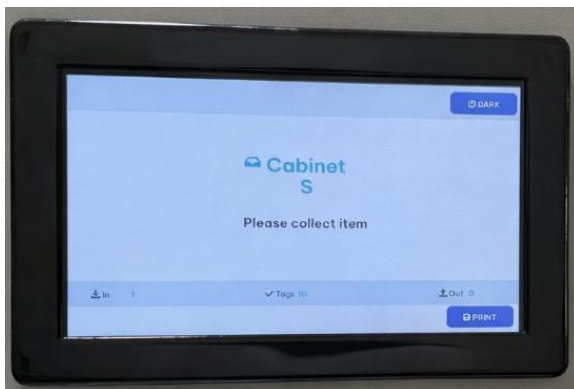
Mechanical emergency lock allows door opening during power failure or system malfunction.

Keys must be held by an administrator.

Warning: Transactions cannot be logged without power. Manual recording is required.

Use of a UPS (uninterruptible power supply) is strongly recommended.

7. Touchscreen (Optional)



Touchscreen 10.1 inches

8. UVC-disinfection light.



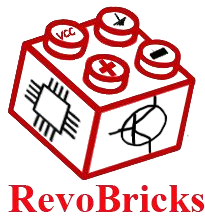
Each shelf is equipped with two UV-C lighting systems mounted on both sides.

The system is activated only when the door is fully closed and automatically turns off as soon as the door is opened, ensuring complete safety for users.

9. Cabinet Group

Cabinet grouping Up to 127 cabinets can be connected in a daisy-chain, sharing one network connection and one receipt printer.

- Single IP address per group
- Supports DHCP and static IP



Typical configuration:

- 1 master cabinet (RBC1-0111001)
- Up to 20 basic cabinets (RBC1-0100000)

10. Certifications

FCC: RAIN RFID module CTC20240911002

CE: RAIN RFID module, EU-type examination certificate No. 1622-RED-240560.

Vietnam: Certification exempted under Circular 02/2024/TT-BTTTT, Article 5

HS code:

The 8 digit HS code is 8471 8000.

The 10 digit HS code is 8471 8000 00.

All transactions are reported via REST API.

Default operation with RevoBricks Smart Cabinet web software.

- Real-time system integration
- CSV import/export via Windows shares or FTP
- Compatible with Dolibarr, Snipe-IT, or any REST-enabled system

11. CabinetBIOS

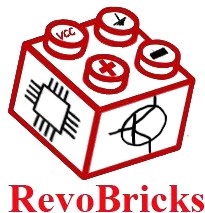
The cabinet controller runs CabinetBIOS, a bare-metal firmware by Revolution Engineering Vietnam (REV). Stored in flash memory, it requires no frequent updates.

Features:

- Native support for RFID, card reader, fingerprint sensor, LED display, buzzer, door locks, Ethernet, Wi-Fi, CAN bus
- REST APIs for ERP, asset management, and analytics systems
- CSV data import/export for offline and legacy system integration

III. ORDER CODES

1. Order codes RBC1-ABCDEFGF



A: 0 = low carbon steel and powder coated, 1 = stainless steel

B: 0 = no card reader, 1 = card reader included

C: 0 = no Ethernet, 1 = Ethernet included

D: 0 = no receipt printer, 1= includes receipt printer

E: 0 =26dBm RAIN RFID reader, 1 =33dBm RAIN RFID reader

F: 0 =no UV-Clights, 1 = includes UV-C lights

G: 0 =no touchscreen, 1 = includes touchscreen

Example: RBC1-00000001: Basic cabinet, powder-coated steel, no card reader, no Ethernet, no receipt printer, 26 dBm RAIN RFID reader, no UV-C lights, with touchscreen.

Patent Protection German and international patents protect this cabinet.
The patent holder is Michael Schmid, CTO and co-founder of RevoBricks.

Version History

Version	Description/Change	Author	Date
1.0	Initial document	Queenie	10.12.2025
1.1	Reviewed and updated	MiSc	10.12.2025
1.2	Added stainless steel cabinet version	MiSc	11.12.2025
1.3	Updated version	Queenie	12.12.2025
1.4	Changed HS code	Queenie	03.06.2026
1.5	Update Capacity Update HS code	Queenie	19.06.2026