CDM-6240N

Technical Manual

1 Overview

CDM-6240N cash dispenser module is a core cash dispenser module developed by GRGintech with independent intellectual property right and international leading technology, consists of cassettes, carrier, independent reject bin, note feeder, high-precision note thickness detection module, note delivery transport, and has reject bins with locks. It can support extension of cassettes at 2-6 levels, accurately feed specified number of notes from the specified cassette as required to the user, and automatically reject possibly unacceptable notes to the reject bins. Therefore, it is highly reliable, usable and maintainable.

2 Statement

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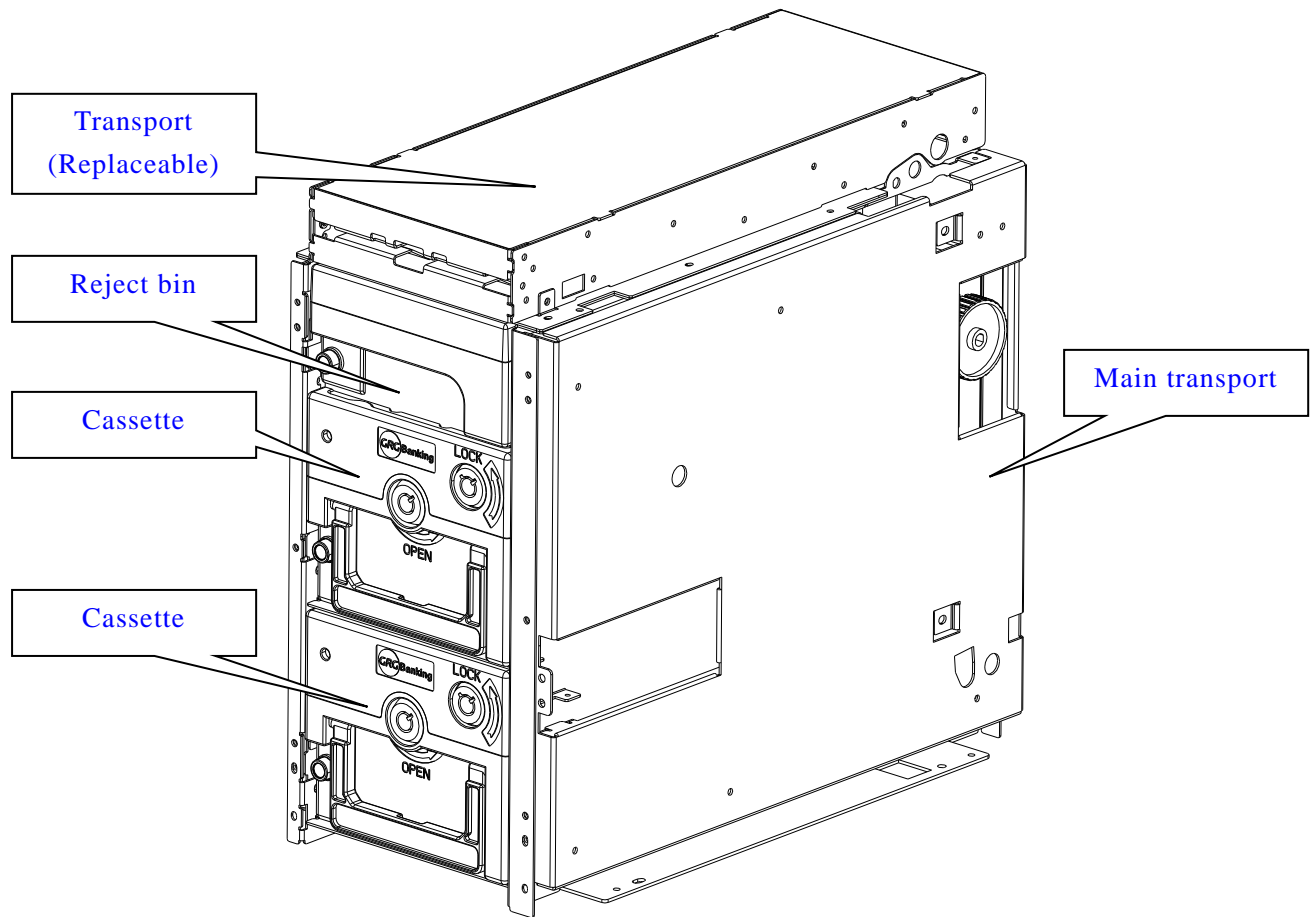
3 Model
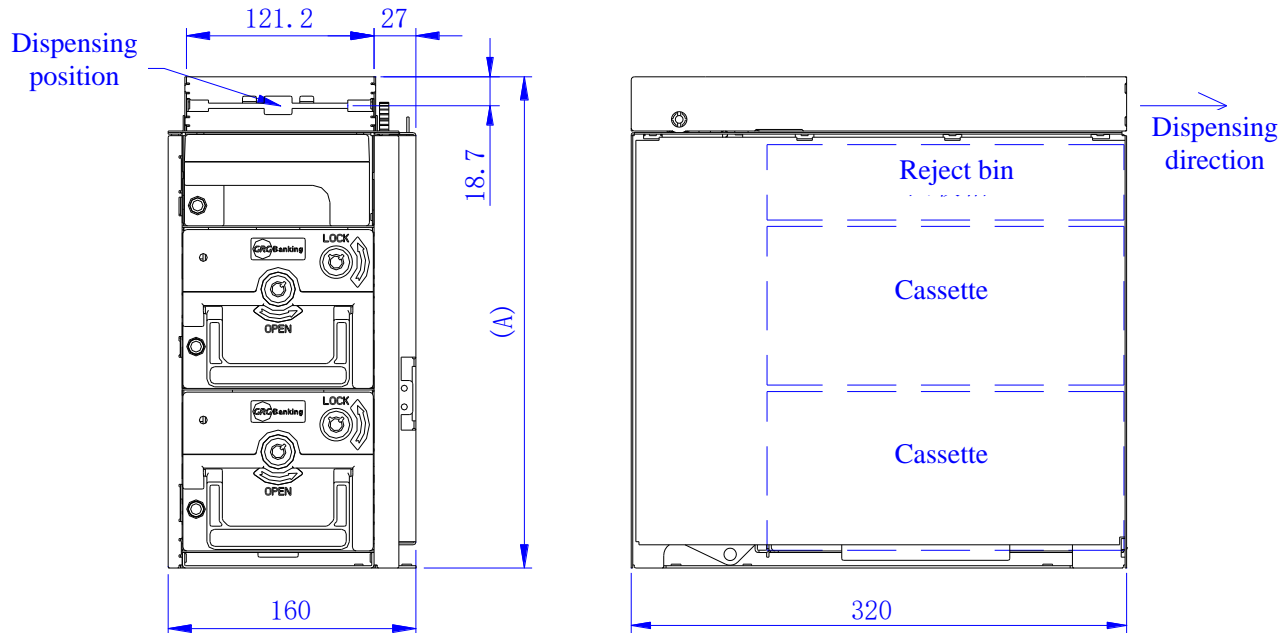
Model: CDM-6240N

4 Terms

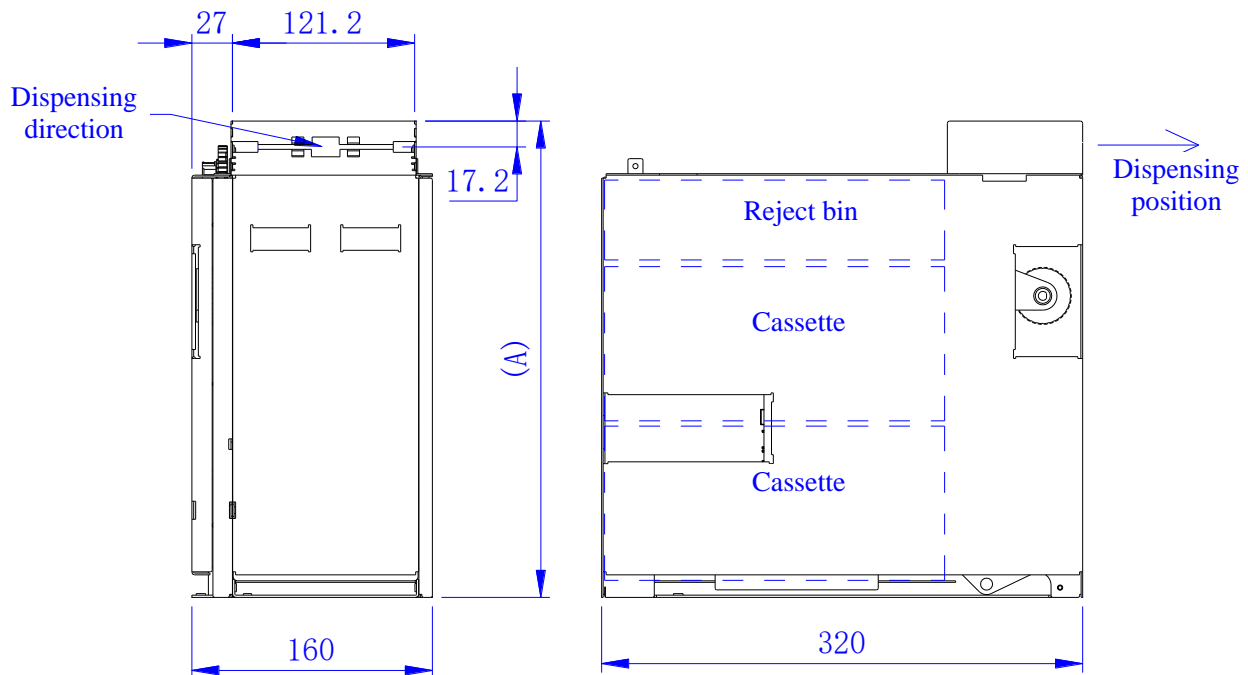- CDM —— Cash Dispense Module

5 Appearance

5.1 Overall appearance

Transport
(Replaceable)

Reject bin

Cassette

Cassette

Main transport

5.2 Outline dimensions (Unit: mm)

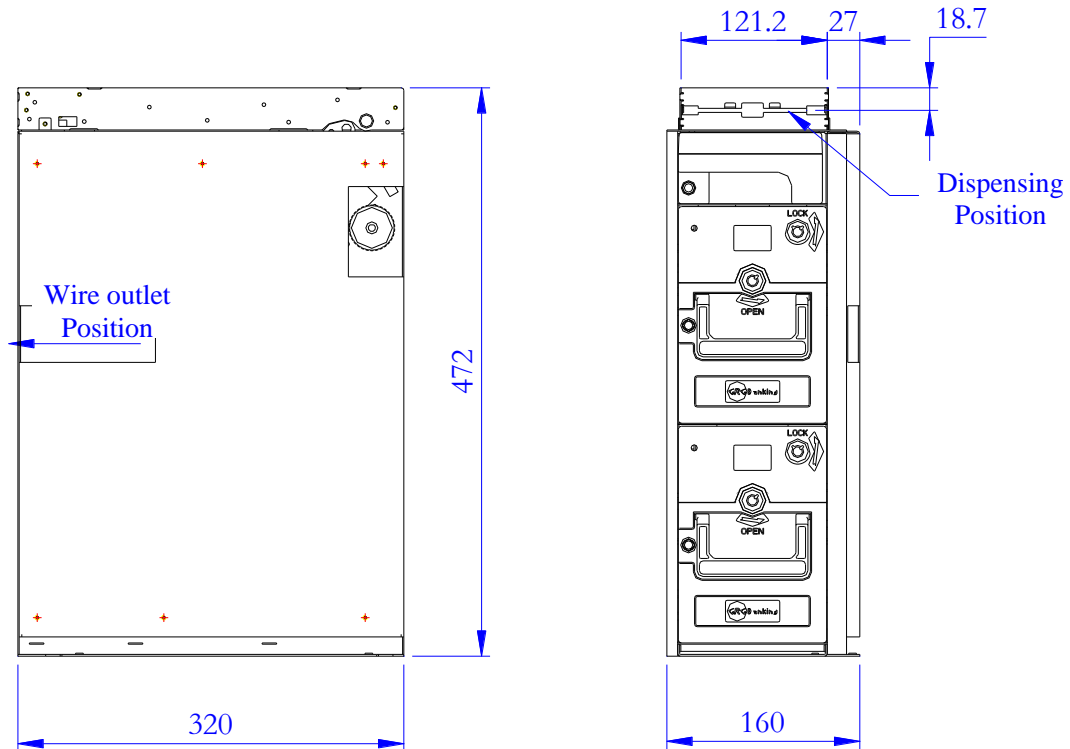The outline dimensions of CDM-6240N in front service mode（500 notes cassette）:

	A
2-cassette	317
3-cassette	423.4
4-cassette	529.8
5-cassette	636.2
6-cassette	742.6

The outline dimensions of CDM-6240N in rear service mode（500 notes cassette）:

Dispensing direction

27　121.2

17.2

(A)

160

Dispensing position

Reject bin

Cassette

Cassette

320

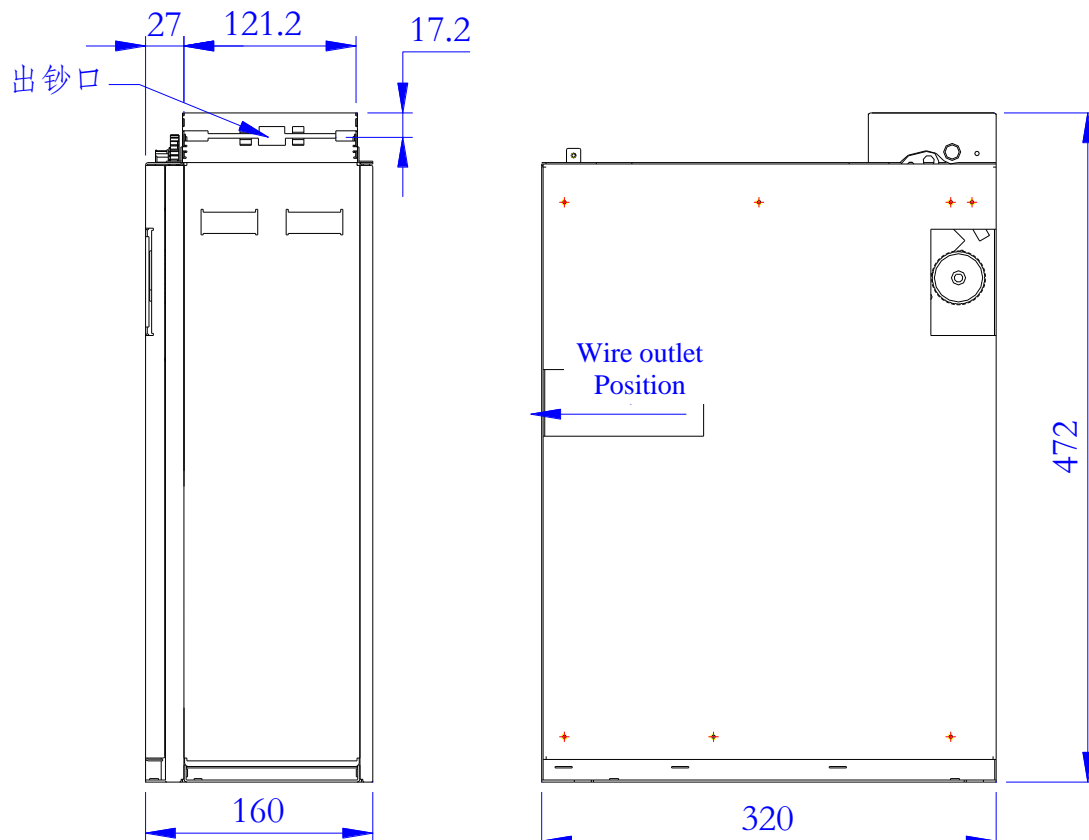|	A
2-cassette	317
3-cassette	423.4
4-cassette	529.8
5-cassette	636.2
6-cassette	742.6

The outline dimensions of CDM-6240N in front service mode（1000 notes cassette）

121.2　27　18.7

Dispensing Position

Wire outlet Position

472

320

160

The outline dimensions of CDM-6240N in rear service mode（1000 notes cassette）

27　121.2　17.2

出钞口

Wire outlet Position

472

160

320

6   Function Characteristics

- With the friction dispensing mode, the module can support any kind of paper notes with strong adaptability.
- It can be expanded to 6 cassettes, and each cassette can contain 500 notes/1000 notes(optional).
- The cash dispensing speed is about 2 notes/second.
- The maximum single cash dispensing transaction is 20 notes.
- Stable and reliable note validator (capable of validating many kinds of invalid notes, such as overlapped note, folded notes and incomplete notes).
- Cassette low level detection.
- The unique module self-calibration function effectively eliminates errors from assembly.
- The cassette is provided with RFID.

7   Characteristics

- Unique high security locked cassettes and reject bins.
- Open maintainable transport which is convenient for daily maintenance.
- Unique logging and query functions enables to record and query of transaction logs.
- Unique module off-line self-diagnostic function which is convenient for debugging and maintenance.
- Common vulnerable parts which are convenient for replacement and maintenance at site.
- Complete modularized design which is convenient for disassembly and assembly.

8   Technical Parameters
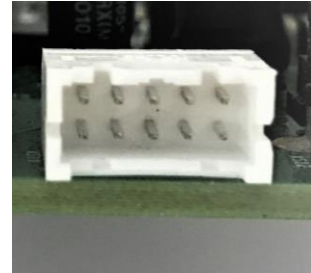
8.1   Electrical specifications

Table 1

Item		Specification
Power supply	Input voltage	DC24V, 150W maximum
	Standby power	10W
	Transaction power	60W(2-cassette), max.150w(6-cassette)
Environmental requirement	Operating temperature	0℃ ~ 50℃
	Operating humidity	20% ~ 90% RH (non-condensing)
	Temperature change rate	10℃/h
	Humidity change rate	10%/h
Communication interface		RS-232 / USB (optional)

Weight	Front service: 11.3kg (total weight of 2-level standard cassettes; if a level of weight is increased, the weight will increase by 3.9kg)
	Rear service: 11kg (total weight of 2-level standard cassettes; if a level of weight is increased, the weight will increase by 3.9kg)

8.2 Serial communication interface

Use the RS232 serial communication. See Table 2.

Baud rate	9600 bps
Data bit	8
Parity check	N/A
Stop bit	1

The electrical characteristics of pins are as listed in Table 3.

Pin No.	Electrical characteristics
2	TXD
3	RXD
5	GND
10	GND

Top view of serial port socket

1	3	5	7	9
2	4	6	8	10

Location of main control circuit board

Connector socket: 10-core double-row bend socket CI0110P1HDO

Cable plug: 10-core double-row plug CI0110SDOOO
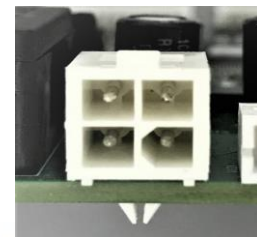
Used with CI01TD2PEO pin

8.3 Power interface

Power supply: +24VDC±10%, 5A

Connector socket: 4-core power outlet 770968-1AMP

Cable plug: 4-core power plug 172167-1AMP

Used with 770902-1AMP pin

Top view of power interface socket

The electrical characteristics of pins are as listed in Table 4.

Pin No.	Electrical characteristics
1	+24V
2	GND
3	GND
4	+24V

1	3
2	4

Location of main control circuit board

8.4   Performance specifications

Table 5

Item		Specification
Cassette	Expansion method	Maximum level: level 6.
	Cassette capacity	500 notes/1000 notes(optional)
	Capacity of reject bin	30 notes
	Security performance	With mechanical lock
Note adaptability	Note length	120mm~165mm
	Note width	60mm~82mm
	Note thickness	0.06mm~0.18mm
Note feeding mode		Friction type
Mode of dispensing notes		Single / Stack(optional)
Dispensing speed		2 notes per second
Maximum number of notes dispensed in single transaction		20 notes
Low level detection		<30 notes (adjustable)
Reject method		Single note for rejection
Maintenance mode		Front service/rear service

8.5   Material specification

All parts of CDM-6240N cash dispensing module comply with requirements of the *Technical Standards for Restricted Substances Used for ATM Products* issued by GRGintech.