Product Specification

MODEL : ECDM-100

REV. : 1.1

DATE : 2006. 04. 03

PULOON Technology Inc.

Revision History

Ver.	DATE	Item		Name
		Title	Details	
1.0	2006.03.08	Released		H. H. SO
1.1	2006.04.03	Contants Change	Current specification change.	H. H. SO

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1 Preview and Features

1.1 Preview

ECDM-100 is the cash-dispensing unit that can be applied to ATM and notes exchanger for retail market. The main function is to dispense the exact number of banknotes in the cassette by a customer's request and to transfer to the customer automatically.

1.2 Features

1) To separate notes by friction rollers
2) To prevent from double dispensing case by mechanical double detect mechanism
3) To implement mold guides and paths to minimize jam occurrence
4) To maximize convenience in maintenance or clearing by opening guide structure
5) To realize compact and slim size so as to be applied to even small space
6) To speed at a rate of 4 notes/sec
7) After power failure, bills on the path are rejected to reject cassette when power turns on again (Auto Reject Function)

2 Specifications

2.1 General Specifications

2.1.1	Denomination	1 Denomination
2.1.2	Cassette Capacity	214mm
2.1.3	Dispensing Speed	4 notes/sec
2.1.4	Usable Note Size	Width : 100 ~ 162mm Height: 62 ~ 78mm
2.1.5	Double Feeding Detection	Mechanical type
2.1.6	Reject Capacity	About 50 notes
2.1.7	Access Type	Front Access Type
2.1.8	Dimension (unit: mm)	270.5(W) x 225(H) x 420(D)
2.1.9	Interface	RS 232C

2.1.10 Near-end Detection (Selectable, Refer to Chapter 4.4)

1) Near-end Disabled All notes are dispensed until Bill-end.

2) Near-end Enabled 50 or 150 notes* will be left and it stops.

* The remaining amount will be decided to the position of Near-end sensor.

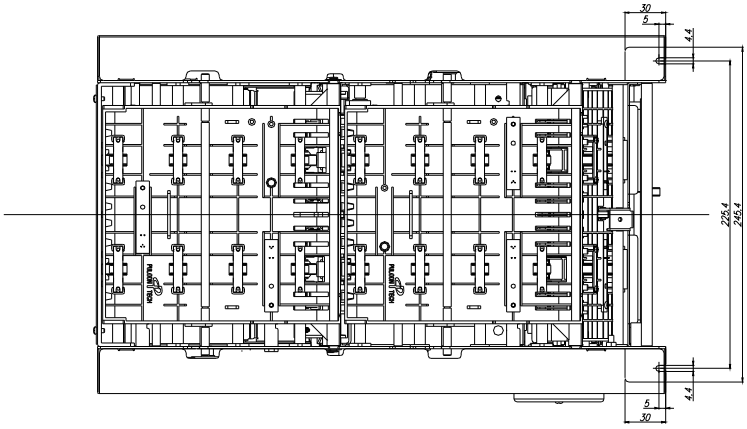
2.2 Electrical Features

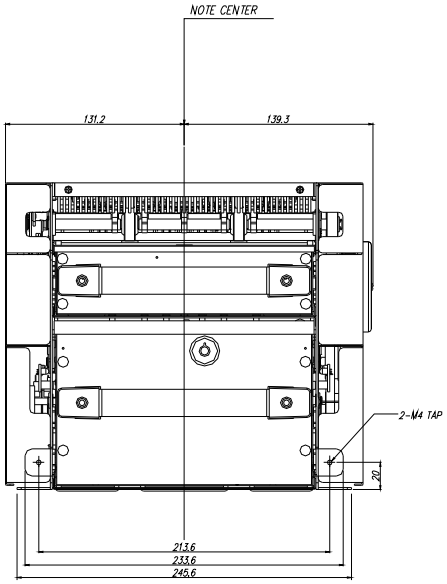
2.2.1	Rated Voltage	DC24V±10%
2.2.2	Rated Consuming Current	
	- Standby Status	160 mA
	- Average Current, continuous	2600mA
	- Average Current, peak	5000mA

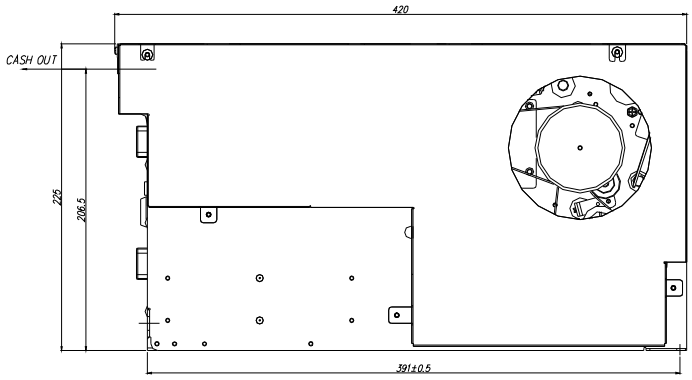
2.3 Operation Environment

2.3.1	Operation Temperature	+ 5℃ ~ +40℃
2.3.2	Storage Temperature	-10℃ ~ +60℃
2.3.3	Operation Humidity	20% ~ 80% RH
2.3.4	Storage Humidity	10% ~ 90% RH

3 Layout


30
5
4.4
226.4
245.4
5
30


NOTE CENTER
131.2
139.3
2-M4 TAP
20
213.6
233.6
245.6


420
CASH OUT
225
206.5
391±0.5

4 Connector Specifications

4.1 Power Connector

The power connector is positioned at the bottom of the ECDM-100 main Controller.

Connector on Controller : MOLEX 5566VWO-02

Matching Connector : MOLEX 5557D-02

Pin No	Function
1	+24V
2	GND

4.2 Communication Connector

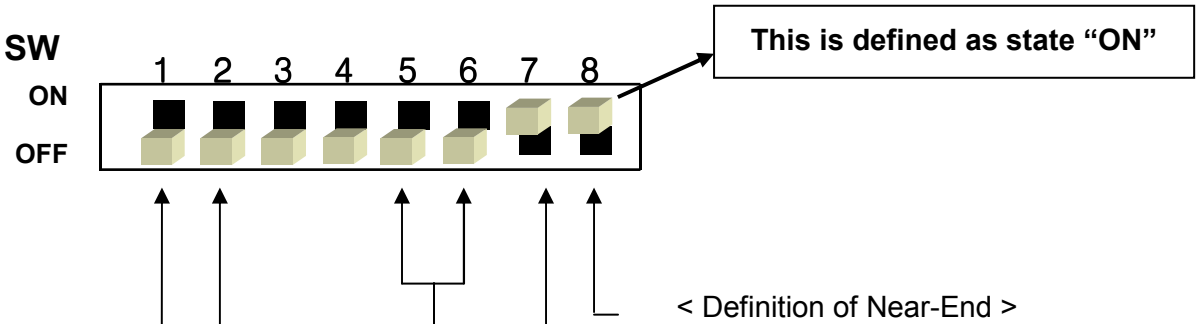
The communication connector is positioned at the bottom of the ECDM MAIN Controller PCB. It is 9-way and D-type connector.

Pin No	Name	Function
1		Not used
2	RXD	Received data
3	TXD	Transmitted data
4		Not used
5	GND	System ground
6		Not used
7		Not used
8		Not used
9		Not used
10		Not used

4.3 Serial Communication Specifications

Baud rate	9600 bps
Data bits	8 bits
Parity	No parity
Stop bits	1 stop bit

4.4 Dip Switch Assignment



< Definition of Near-End >

ON : All notes will be dispensed.

OFF : About 50 or 150 bills remain.

(The remaining amount is up to the setting position of the Near-end sensor in the factory.)

< Display of Reject code >

ON : Display

OFF : Non-Display

< Operation Mode >

S/W 5	S/W 6	Mode
ON	OFF	Self-Test Mode (Option)
OFF	OFF	On-Line Mode
OFF	ON	Debugging Mode (PC)
ON	ON	Reserved.

< Execution of Purge on Initialization >

ON: Disable OFF: Enable

< Reserved >

OFF: Default

CAUTION!

Please turn on power again after changing the Dip Switch.