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Product Specification

MODEL : UCDM
REV. : 0.1
DATE : 2011. 05. 20




PULOON Technology Inc.

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Revision History

Ver.	DATE	Item		Name
		Title	Details	
0.1	2011.05.20	Released		H.J.KIM

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1 PREVIEW AND FEATURES

1.1 PREVIEW

UCDM is the cash-dispensing & presenting unit that can be applied to CD/ATM, TVM 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 roller
- 2) To prevent from double dispensing case by ultrasonic 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 7 notes/sec
- 7) To have lockable cassettes (up to 4 denomination) and a lockable reject box
- 8) After power failure, bills on the path are rejected to reject box when power turns on again (Auto Reject Function)

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2 SPECIFICATIONS


2.1 GENERAL SPECIFICATIONS

2.1.1	Denomination	Up to 4 Denominations
2.1.2	Cassette Capacity	355mm (Approximate 3,000 notes)
2.1.3	Dimension(WxDxH)	280x664x419(Front Access)
	(4-Denomination,unit: mm)	280x676x402(Rear Access)
2.1.4	Weight(without notes)	59kg (4-Denomination)
2.1.5	Usable Note Size	Width : 120 ~ 178mm Height: 60 ~ 86mm Thickness: 0.06 ~ 0.18mm
2.1.6	Dispensing Speed	7 notes/sec
2.1.7	Access Type	Front or Rear Access Type
2.1.8	Dispensing Notes/Trans.	Max. 100 notes/Trans.
2.1.9	Notes retrieval	Yes/Bundle Presenter
2.1.10	Reject Capacity	Approximate 200 notes
2.1.11	Cassette Security	Key Lock
2.1.12	Double Feeding Detection	Ultrasonic Detection Type
2.1.13	Interface	RS 232C, USB(Optional)
2.1.14	Note Low sensor	Empty / Near Empty
2.1.15	Near Empty Detection (Selectable, Refer to Chapter 4.4)	
	1) Near Empty Disabled	All notes are dispensed until note empty.
	2) Near Empty Enabled*	Aproximately 30,130,230notes(Used notes) will be left and it stops.

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


2.2 ELECTRICAL FEATURES

2.2.1	Rated Voltage	DC24V±10%
2.2.2	Rated Consuming Current (4-Denomination)	
	- Standby Status	0.28 A
	- Average Current, Dispense	5.3 A
	- Peak Current	10 A (for 120 msec)

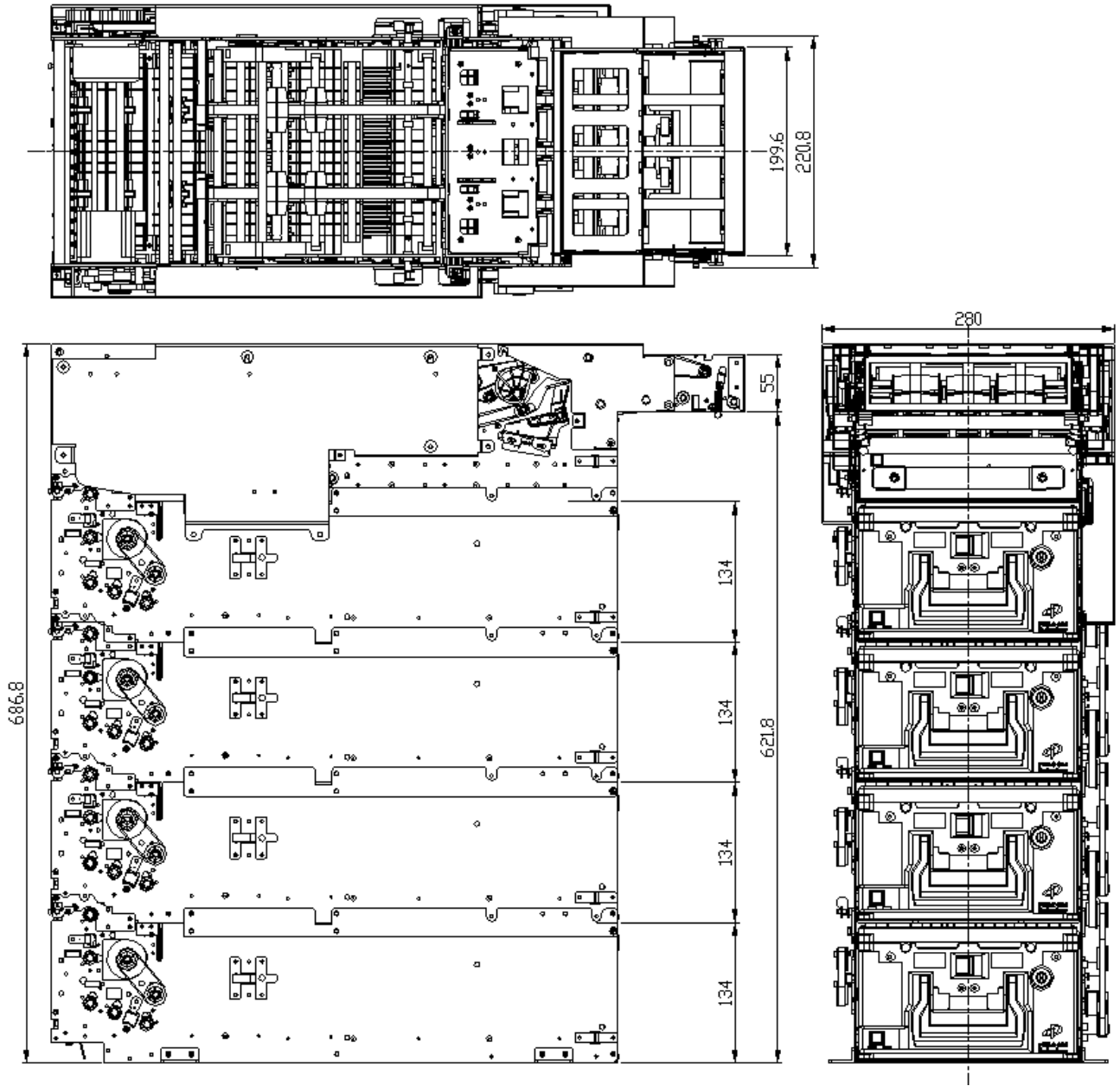
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2.3 OPERATION ENVIRONMENT


2.3.1	Operation Temperature	+ 0 °C ~ +45 °C
2.3.2	Storage Temperature	-10 °C ~ +60 °C
2.3.3	Operation Humidity	10% ~ 85% RH
2.3.4	Storage Humidity	10% ~ 90% RH

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3 LAYOUT (4-Denomination)



(unit: mm)

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4 CONNECTOR SPECIFICATIONS

4.1 POWER CONNECTOR

The power connector is positioned at the bottom of the UCDM-200R Main Controller.

Connector on Controller : MOLEX 5566VWO-04

Matching Connector : MOLEX 5557D-04

Pin No	Function
1	+24V
2	+24V
3	GND
4	GND

4.2 COMMUNICATION CONNECTOR

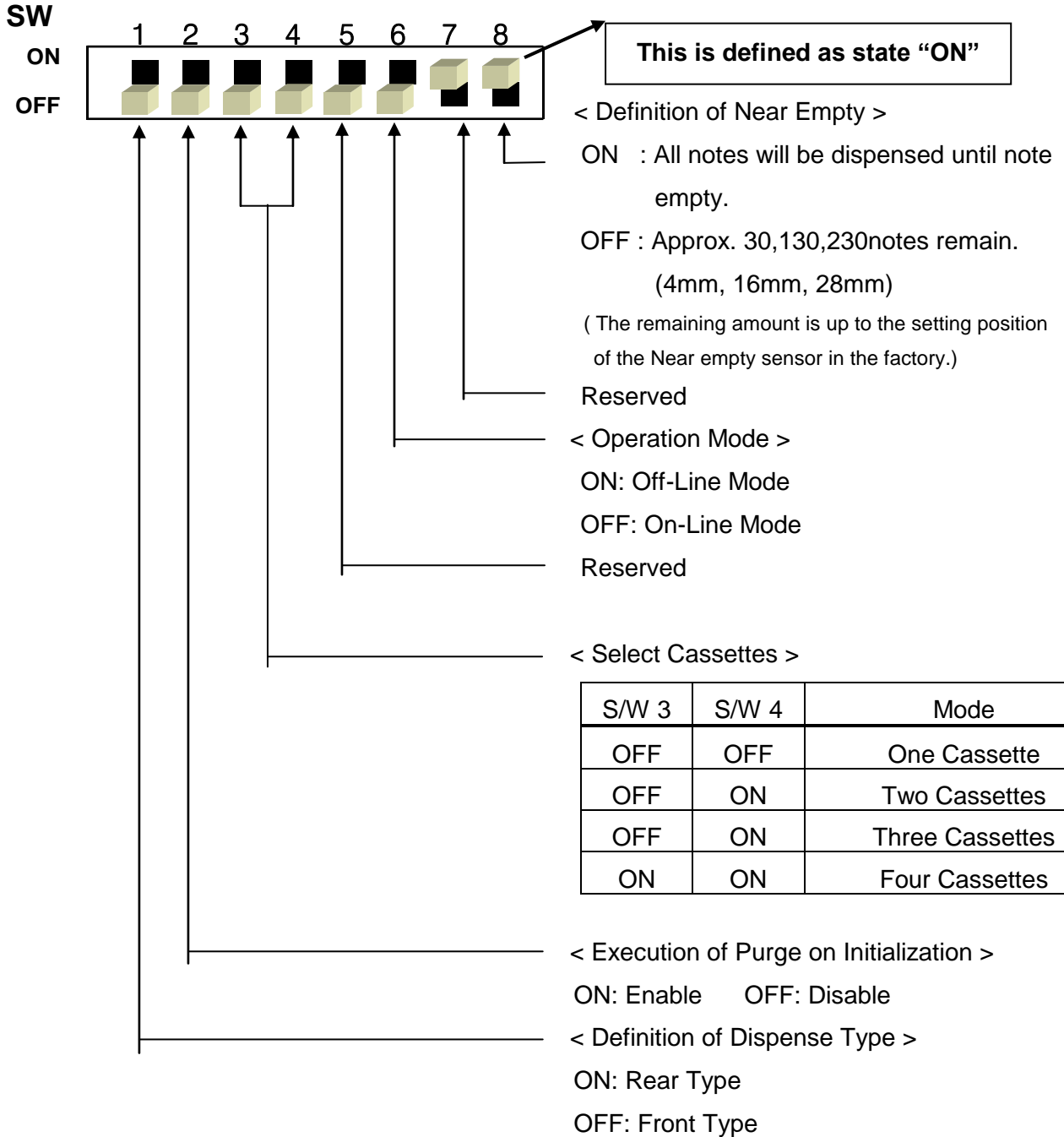
The communication connector is positioned at the bottom of the UCDM-200R Main Controller PCB. It is 6-way and RJ-45 type connector (Molex 52018-6616).

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

4.3 SERIAL COMMUNICATION SPECIFICATIONS

Baud rate	9600 bps
Data bits	8 bits
Parity	Even
Stop bits	1 stop bit

4.4 DIP SWITCH ASSIGNMENT



CAUTION!

Please turn on power again after changing the Dip Switch.