Product Specification

MODEL : VCDM

REV. : 0.3

DATE : 2008. 11. 24

PULOON Technology Inc.

Revision History

Ver.	DATE	Item		Name
		Title	Details	
0.1	2008.03.18	Released		H.J.KIM
0.2	2008.05.09	Communication specifications	Change Parity (page 8)	H.H. SO
0.3	2008.11.24	Communication Connector	Change Pin Function (page 0)	H.H. SO

Contents

1 Preview and Features

1.1 Preview

VCDM-200/400 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 utlrasonic 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 3.2 notes/sec
7) To have tray for customer easily to take the sprayed notes
8) After power failure, bills on the path are rejected to reject tray when power turns on again (Auto Reject Function)

2 Specifications

2.1 General Specifications

2.1.1	Denomination	4 Denomination
2.1.2	Cassette Capacity	60mm
2.1.3	Cassette Security	Key Lock (Option)
2.1.4	Dispensing Speed	3.2 notes/sec
2.1.5	Usable Note Size	Width : 120 ~ 165mm Height: 62 ~ 82mm Thickness: 0.06 ~ 0.2mm
2.1.6	Double Feeding Detection	Ultrasonic Type
2.1.7	Max. Dispensing Notes per Transaction	Max 20 notes
2.1.8	Reject Capacity	About 20 notes
2.1.9	Access Type	Front Access Type
2.1.10	Dimension (unit: mm)	169(W) x 550(H) x 349(D)
2.1.11	Interface	RS 232C

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

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

2) Near-end Enabled About 50 notes (Used notes) will be left and it stops.

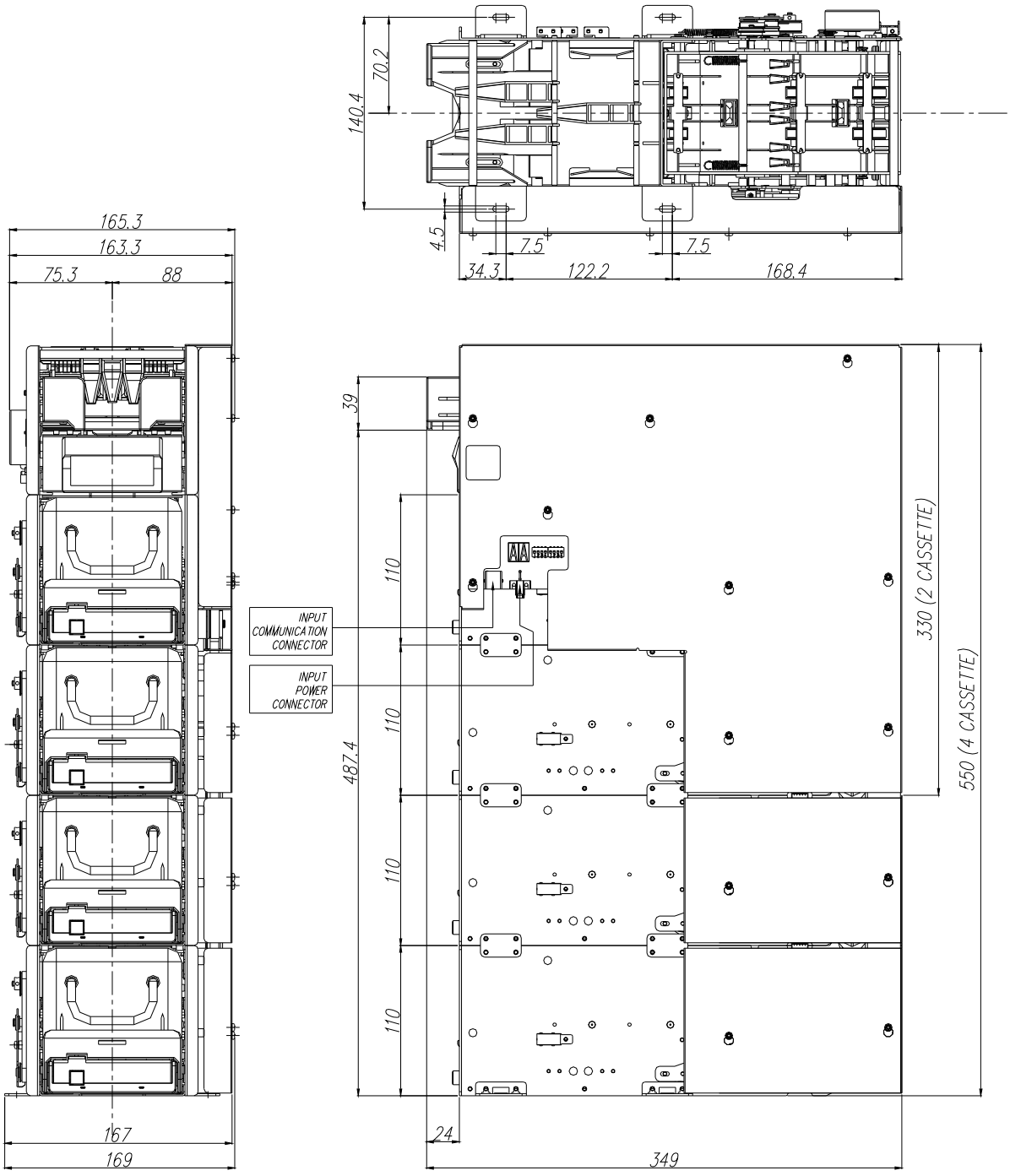
2.2 Electrical Features

2.2.1	Rated Voltage	DC24V±10%
2.2.2	Rated Consuming Current – 2 Cassettes	
	- Standby Status	0.28 A
	- Average Current, continuous	2.4 A
	- Average Current, peak	8.0 A (for 120 msec)
2.2.3	Rated Consuming Current – 4 Cassettes	
	- Standby Status	0.28 A
	- Average Current, continuous	2.6 A
	- Average Current, peak	8.0 A (for 120 msec)

2.3 Operation Environment

2.3.1	Operation Temperature	+ 0℃ ~ +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



(unit: mm)

4 Connector Specifications

4.1 Power Connector

The power connector is positioned at the bottom of the VCDM-200/400 main Controller.

Connector on Controller : MOLEX 5566VWO-02

Matching Connector : MOLEX 5557D-02

Pin No	Function
1	+24V
2	GND

4.2 Communication Connector

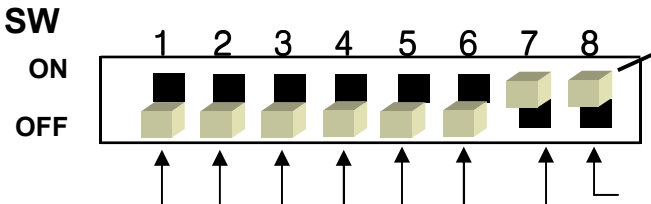
The communication connector is positioned at the bottom of the VCDM MAIN Controller PCB. It is 6-way and RJ-45 type connector (Molex 52018-6616).

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



This is defined as state "ON"

< Definition of Near-End >

ON : All notes will be dispensed.

OFF : About 50 notes remain. (Used notes)

(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	On-Line Mode
OFF	OFF	On-Line Mode
OFF	ON	Debugging Mode (PC)
ON	ON	Reserved.

< Select Cassettes >

S/W 3	S/W 4	Mode
ON	ON	One Cassette
OFF	ON	Two Cassettes
ON	OFF	Three Cassettes
OFF	OFF	Four Cassettes

< Execution of Purge on Initialization >

ON: Disable OFF: Enable

< Reserved >

OFF: Default

CAUTION!

Please turn on power again after changing the Dip Switch.