



# PLATINUM BY PTI

## INSTALLATION & OPERATION MANUAL



**PYRAMID**  
TECHNOLOGIES, INC.

[www.pyramidacceptors.com](http://www.pyramidacceptors.com)

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## Product Overview

The Pyramid Technologies, Inc. (PTI) Platinum Bill Acceptors, PATENT PENDING, are designed for indoor use in the Kiosk, Amusement, Gaming, Lottery, and Vending markets.

## Foreword & Copyright

While all information contained herein have been carefully checked to assure its accuracy in technical details and printing, Pyramid assumes no responsibility resulting from any error or features of this manual, or from improper uses of this manual or the software. Please contact our technical department for relevant operation solutions if there is any problem that cannot be solved according to this manual.

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## Platinum Bill Acceptor Features

- Lighted Bezel and bill entry area.
- High security against fraudulent bills.
- High security against bill cheats using dual-stage optical anti-stringing and integrated mechanical anti-stringing lever.
- Optional Lockable and Removable Cassette design(LRC)- Can lock currency inside the removable cassette and/or can lock the cassette to the acceptor frame.
- Flash downloadable software using a simple USB flash drive or a PC.
- Diagnostics via Pushbutton/LED as well as PC-based diagnostics.
- Many interfaces are available:

- Harness Pinouts are often compatible with other manufacturers' bill acceptors.
- Simple configuration and setup.
- 12 VDC (+/- 10%) operation is standard. Optional MDB and 120 VAC operations are available.
- Removable bill path for easy cleaning.
- Can handle bills up to 78 mm wide for foreign applications.
- 150, 500, 1000, and 2000 bill cassettes available.
- Auto-calibration - The unit never needs to be calibrated.

Thank you for Purchasing from Pyramid!

We Welcome Custom Applications to fit your Needs!

## Product Specifications

Warranty:	2 years, parts and labor (See Limited Warranty Section)
Operating Voltage	12 VDC +- 10 % (120 VAC and MDB 24V optional)
Operating Currents	Idle, 150 mA Operating, 2.2 A Max
Operating Temperature	0 to 60 C, 90% Maximum Non-Condensing Humidity
Acceptance Rate:	Greater than 95%
Acceptance Speed:	Approx. 27 bills per minute
Net Weight:	2.45 lbs. / 1.11 kg.

## Model Number Description



Cashbox Type



Cashbox Capacity



Power Supply



Bill Path Width



Country Code

## PT1 - XXX-XX - ISO

X - Cashbox Type

U - Non-Locking

L - Locking

X - Cashbox Capacity

A - 150 Note

B - 500 Note

C - 1000 Note

D - 2000 Note

X - Power Supply

1 - 12 VDC

3 - 120 VAC

4 - MDB (24VAC)

XX - Bill Path Width

66 - Notes up to 66 mm

72 - Notes up to 72 mm

78 - Notes up to 78 mm

ISO - Country Code

Please specify the currency you wish to accept when placing an order.

USA - United States

CAN - Canada

EUR - European Union

Platinum supports a large number of currencies, please contact your sales representative to learn more, including multiple currencies supported in one firmware.

## Optional Accessories

### Description

### Part Number

#### Wall Plug Harness

P/N 05AA0012

For acceptors with the 120VAC power supply, this will adapt the 9-pin connector to a wall plug to power the acceptor using a standard 120 VAC wall outlet.

#### Acceptor I/O Harness, Generic

P/N 05AA0029

This is an 8-pin harness to interface to the Platinum bill acceptor inputs and outputs. The harness is 36" long. Please see the Electrical Section of this document for an explanation of the pins.

#### Adapter Bracket Kit

P/N 95AB0001

This kit mounts the Platinum bill acceptor to a wood or metal door that does not already have mounting studs. This kit comes with all the necessary mounting hardware. This bracket only works with the 66mm or 72mm bill width versions of the Platinum.

#### RS-232 Communication Harness

P/N 05AA0068

This harness is needed for RS-232 communication. The harness comes with a DB9 connector on 6 feet of cable. This cable is only used for 120 VAC acceptor power. Visit our website for our RS232 communication protocol document. The Download section of our website has a demo program that you can download to try out the RS-232 interface.

Please visit our website ([www.pyramidacceptors.com](http://www.pyramidacceptors.com)) for more harness options and details.

## Platinum Serial Number

Example S/N: 231700001

In this example, the first two digits are the year of manufacture (2023).

The week of manufacture is week 17 of 2023.

The sequential production ID number is 00001.

## Dimensional Drawings

For Dimensional Drawings, please visit our website at [www.pyramidacceptors.com](http://www.pyramidacceptors.com) and look in the Platinum Bill Acceptor section.

## Limited Warranty

Platinum Bill Acceptors are warranted for a period of Two (2) Years from the date of the original invoice.

This warranty extends to the original purchaser of the warranted product and each transferee owner of the product, during the term of the warranty. During the warranty period, the manufacturer will repair or replace (at the manufacturer's option) any parts, up to and including the complete Platinum, which fail to function properly because of defects in material or workmanship. This warranty does not cover any damage related to water, vandalism, chemical or liquid spills into the Platinum.

The manufacturer is not responsible for any consequential damage or performance degradation that results from foreign objects being inserted into the Platinum. The product to be repaired under warranty must be delivered, and inbound freight prepaid to an authorized service center. Upon request, the owner must show proof of purchase when submitting equipment for service during the warranty period. Repair or installation at the owner's location is not included in the warranty. During the warranty period, the manufacturer will pay all outbound ground freight charges to the owner's location. Special handling or shipping charges must be assumed by the owner. The manufacturer will not be liable for any consequential damages as a result of defects in material or workmanship. Any written or implied warranty of this product is strictly limited to the refund of the cost of goods purchased. Damage due to negligence, accidents, electrical overload, misuse, abuse, vandalism, or an act of God, is not covered by this warranty. Any alteration of the product after manufacture voids the warranty in its entirety.

## Unpacking the Platinum / Shipping Damage

You should always immediately unpack and inspect to see if the Platinum is damaged; when a product is returned to the owner after service or as a new purchase, only the consignee (the person or company receiving the Platinum) can file a claim against the carrier for concealed damages. Therefore you should place the Platinum back in its original carton along with the packing materials. Then notify the carrier of damages and request an immediate inspection of the package. Send a letter of intent to file a claim to the carrier within 72 hours from the time of delivery. Please also send a copy of this letter to the shipper.

## Service

For service information, please contact Pyramid Technologies, Inc. for a Service Center near you. For any items returned under warranty or for repair, complete written information including the Serial Number and model number as well as a description of the malfunction or defects must be submitted to the Service Center when requesting a Return Material Authorization number (RMA number). The Owner accepts full responsibility for any return without prior authorization. The RMA number must be displayed on the exterior of the returned product carton(s).

## A Tour of the Platinum Bill Acceptor

Figures 1 and 2 show you the important areas of the Platinum Bill Acceptor.

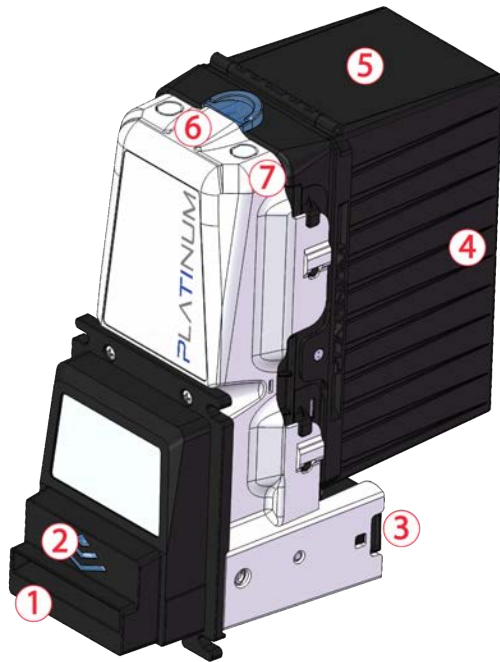


Fig. 1

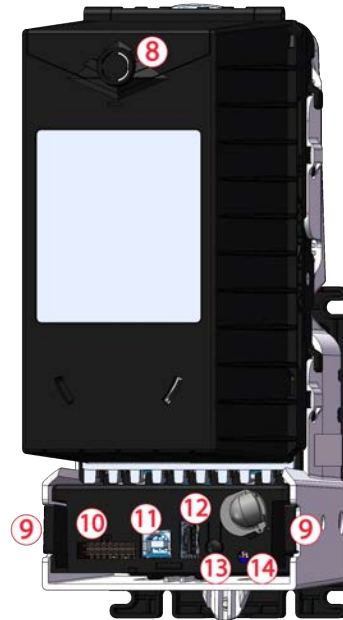


Fig. 2

### ID Number Description

1. Bill Entrance
2. Lighted Front Bezel
3. Latches to depress to pull out the lower sensor mechanism
4. Cashbox (Cassette)
5. Cashbox Lid
6. Cashbox Removal Latch
7. Optional Lock location to lock cash box to the Platinum frame
8. Cashbox lid- Optional lock can be installed for a true LRC
9. Latches to depress to pull out the lower sensor mechanism
10. 18-pin connection point
11. USB interface connection point
12. USB Flash Drive/Firmware Update port
13. Diagnostic Pushbutton
14. Diagnostic LED



# Installation/Mounting

The Platinum Bill Acceptor has been designed to easily mount onto existing brackets in OEM equipment.

If you are mounting the acceptor to a wood panel or door, you may require our optional Adapter Bracket (P/N 95AB0001).

[If you have special mounting needs, please contact us!](#)

To install the Platinum

1. Disconnect all power to the machine.
2. Mount the Platinum into your machine.
3. Connect the Power Cable and or Interface Cable from the host machine to the Platinum.
4. Important!- Make sure that all wiring is properly secured in your machine!
5. Close the door to your machine.
6. Turn on the power to your machine.

Once the Platinum powers up, Insert bills into the Platinum to verify that every denomination of currency accepts and credits the machine properly.

# Preventative Maintenance and Cleaning

The Platinum is relatively maintenance-free. Occasional cleaning is all that is needed to keep the Platinum in top operation. Please refer to the below table:

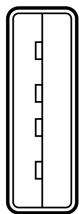
	Part of Bill Acceptor	Action	Inspection Period		
			3 Months	6 Months	1 Year
1	Validation Sensors	Clear of dust accumulation with canned air.	X	X	X
2	OAS Sensor	Clear of dust accumulation with canned air.	X	X	X
3	MAS Lever	Ensure spring tension.		X	X
4	Lower Rollers & Rear Upper Rollers	Ensure full smooth rotation. Clean as needed.			X
5	Cashbox	Check Tension. Clean Belts. Ensure proper extension and retraction of the punch and receiving plate.			X

# Platinum Configuration and Firmware Changes Using a PC

This method allows you to change the configuration and perform any currency updates on the Platinum Bill Acceptor. Once configured, the unit will remember these settings, even if power is removed. The Platinum Bill Acceptor does not use Dip Switches or Configuration Cards.

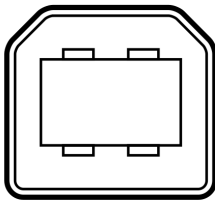
## USB Ports

Platinum has two USB ports.



### USB Flash Drive Port

This is the standard USB Type-A port on the back of the unit. This USB port is used to update Platinum's firmware or configuration using a flash drive that is inserted into this port. Note when a USB flash drive is inserted the nearby diagnostic LEDs are used to understand what operations are happening.



### USB Device Port

This is the standard USB Type B port on the back of the unit. This USB port is typically used as a communication port to connect to the host machine or game, or Pyramid's tools program to update or configure the bill acceptor.

## Diagnostic LEDs Features

The Platinum must have power to show its LED diagnostics. The multicolor LED at the rear of the unit will flash a certain amount of times should there be an issue. This flash code corresponds to the errors listed below. If the LED is solid green then the Platinum is functioning properly and is ready to go.

Rear Diagnostic LED Color	LED State	Bezel LED (One Color Only)	Definition
Off	Off	Off	No Power
Green	Solid	Off	No Error
White	Solid	Off	Critical Error

Red	Flash	Off	Acceptor/Stacker Jam or Punch Failure
Green	Flash	Off	Cashbox Full
Purple	Flash	Off	Cashbox Missing
White	Flash	Off	Motor Failure
Yellow	Flash	Off	Disabled By Host
Blue	Rapid Flash	Off	OAS Lockup
Red	Rapid Flash	Off	Brownout/Low Voltage
The Below Sections show the LED state with a USB Drive Inserted			
Rear Diagnostic LED Color	LED State	Bezel LED (One Color Only)	Definition with USB Drive Inserted
Red	Rapid Flash	Rapid Flash	Error
White	Rapid Flash	Rapid Flash	AutoRun started
Green	Rapid Flash	1 Flash with a pause	Flash Update with .ptix file on the drive.
Blue	Rapid Flash	2 Flashes with a pause	Unit configuration update with .plat file on the drive.  The .plat file MUST have "active" in the file name somewhere.
Purple	Rapid Flash	3 Flashes with a pause	Export all diagnostics data to drive.
Alternating Between Red and Blue	Rapid Flash	None	Downloading Firmware. The Unit is in bootloader mode.  DO NOT REMOVE POWER If this state persists for more than a few minutes, you will need to update the unit via a PlatinumTools PC application.

## Firmware Update via USB Drive

1. On a PC, upload the .ptix file you want to use to the drive
2. Note that the drive must be "FAT" or "FAT32" formatted
3. Insert the drive into the Platinum unit you want to update.
  - a. If the drive is recognized (may take a few seconds), the back diagnostics LED will give user feedback. See the user LED table above.
4. AutoRun should execute and give a short user LED feedback before it resets the unit and updates the firmware. Once it's complete, the unit will reset.

Note that if the unit does *not* reset and displays an "Error", it means something went wrong and you need to remove and re-insert the drive to try again.

## Configuration Update

1. On a PC, upload the .plat configuration file you want to use to the drive.
2. The file name **MUST** have the word "active" in the name somewhere. If it does not have "active" the unit will not update its configuration with it. The word "active" is case sensitive and must be all lowercase letters.

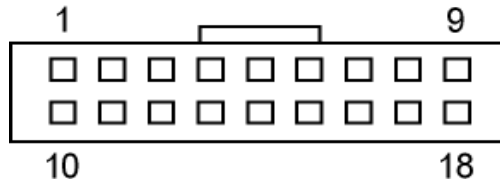
## Push Button Features

The pushbutton at the rear of the unit is used to override the autorun feature if a USB flash drive is inserted. This is the menu system. To get into the menu, hold the button while you insert the flash drive.

Then you can cycle through the 3 menu options by pressing the button. Once you are on the menu option you want, indicated by the diagnostic LED color, then hold the button for 3 seconds to select that menu option.

Function of USB Drive	Rear Diagnostic LED Color	Select By
Flash Update Firmware	Green Rapid Flash	Hold the button down for 3 seconds
Download the Active Configuration file	Blue Rapid Flash	Hold the button down for 3 seconds
Export Diagnostic Data	Purple Rapid Flash	Hold the button down for 3 seconds

## 18-PIN

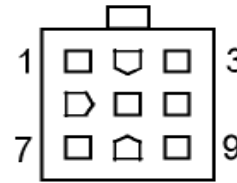


18-pin I/O connector  
(looking at the acceptor)

18-pin Mating Connector  
Molex P/N 22-55-2182 (Housing)  
Molex Female Contact P/N 16-02-0086

Pin	18-Pin Connector Function (wire color)
1	\$1 Low-level credit line output (Brown)
2	~INT line for Mars 600-baud mode (Orange)
3	Serial/~Pulse (Yellow)
4	DC Power Ground (Black)
5	TXD for Mars 600 or TTL RS232 (Green)
6	Not Used
7	Inhibit+ (Gray)
8	Inhibit- (Pink)
9	5V Control Line (White)
10	Out of Service line (pulled low) (Tan)
11	+12 VDC Power (Red)
12	~Acceptor Enable (Pull low to enable) (Violet)
13	410-Ohm resistor to +5 VDC for Out of Service LED (White/Orange)

## 9-PIN



9-pin 120 VAC  
(view of connector)

9-pin Mating Connector  
Amp 9-pin P/N 172169-1  
Amp Female Pin P/N 170362-1

Electrical Connection  
Details (Pin Outs)

Pin	9-Pin Connector Function
1	Not Used
2	Not Used
3	Not Used
4	120 VAC Hot Power (Black)
5	Not Used
6	120 VAC Neutral Power (White)
7	Bill Acceptor Relay Contact (Normally Open) (Brown)
8	Bill Acceptor Relay Contact (Common) (Blue)
9	Not Used

Pin	18-Pin Connector Function (wire color)
14	~Send line for Mars 600 (White/Blue)
15	Not Used
16	RXD for TTL RS232 (White/Red)
17	Not Used
18	Not Used

Pin	9-Pin Connector Function
-----	--------------------------

## Modes of Operation- Communication to Host

### Standard Pulse Mode

The Pulse Mode can operate using either the optional 120 VAC power supply or 12 VDC power applied to the bill acceptor.

#### Power

120 VAC Model- Connect 120 VAC power to Pins 4 (Black wire) and 6 (White wire) on the 9-pin connector.

12 VDC Model- Connect +12V DC to Pin 11 (Red wire) on the 18-pin connector. Connect DC ground to Pin 4 (Black wire) on the 18-pin connector.

#### Control Inputs

Pin 12 (Violet wire) on the 18-pin connector- Accept Enable line. Bring low to enable the acceptor. (Tie it to DC ground, Pin 4 (Black wire) on the 18-pin connector to always enable the acceptor.)

#### Outputs

120 VAC Model- You can use the relay output on Pins 7 (Brown wire) and 8 (Blue wire) of the 9-pin connector, or you can use the normally high, open-collector output transistor on Pin 1 (Brown wire) on the 18-pin connector. (5-12 VDC at 40 mA Max.)

12 VDC Model- Use the normally high, open-collector output transistor on Pin 1 (Brown wire) on the 18-pin connector (5-12 VDC at 40 mA Max.).

Out of Service- the 120 VAC and 12 VDC models have an "Out of Service" output located on Pin 10 (Tan wire) of the 18-pin connector. It is a normally high, open-collector

output transistor that is pulled low when the acceptor is Out of Service. (5-12VDC at 40 mA Max.) Pin 13 (White/Orange wire) of the 18-pin connector has a 410 ohm resistor tied to +5VDC to power an LED.

## Always Enabled Pulse Mode- Connections:

This mode of operation is the simplest to understand. In this mode, the acceptor is always enabled. It will accept all valid bills that are programmed to be accepted. Note: to enable this mode on the acceptor, make sure the Platinum has been configured for "Always Enabled" mode. The output of the bill acceptor is either the relay contacts (if a 120 VAC optional supply is used) or the Low-Level Non-Isolated Credit Line (see below for details).

### Power

120 VAC Model- Connect 120 VAC power to Pins 4 (Black wire) and 6 (White wire) on the 9-pin connector.

12 VDC Model- Connect +12V DC to Pin 11 (Red wire) on the 18-pin connector. Connect DC ground to Pin 4 (Black wire) on the 18-pin connector.

### Outputs

120 VAC Model- You can use the relay output on Pins 7 (Brown wire) and 8 (Blue wire) of the 9-pin connector, or you can use the normally high, open-collector output transistor on Pin 1 (Brown wire) on the 18-pin connector. (5-12 VDC at 40 mA Max.)

12 VDC Model- Use the normally high, open-collector output transistor on Pin 1 (Brown wire) on the 18-pin connector (5-12 VDC at 40 mA Max.) All outputs will send the number of pulses and pulse speed as set by the programming of the acceptor.

Out of Service- the 120 VAC and 12 VDC models have an "Out of Service" output located on Pin 10 (Tan wire) of the 18-pin connector. It is a normally high, open-collector output transistor that is pulled low when the acceptor is Out of Service. (5-12VDC at 40 mA Max.) Pin 13 (White/Orange wire) of the 18-pin connector has a 410-ohm resistor tied to +5VDC to power an LED.

### Mars 600 Baud Serial Mode- (Works with 12 VDC and 120 VAC models.)

This is an older-style serial interface. This interface is non-isolated. (TTL/CMOS compatible.) This interface operates at 600 baud, 1 start bit, 1 stop bit, and 8 data bits. The Platinum bill acceptor will pull the Interrupt line low when it has a serial message to send to the host. The host machine will pull the Send line low when it can receive this serial message. The Platinum will then output a Credit Message if the bill is recognized. A Reject Message is sent if the bill is not recognized. After the Credit message is sent to the host, the Enable line is to be pulsed high within 5 msec if the host wants to return the bill to the customer. If the Enable Line remains low, the acceptor will accept the bill and send a Vend Message to the host. The Host machine can

tell the acceptor to resend any particular message by bringing the Send Line high and pulsing it low within 2-4 msec.

## 600 Baud Serial Mode - Connections:

### Power

120 VAC Model- Connect 120 VAC power to Pins 4 (Black wire) and 6 (White wire) on the 9-pin connector.

12 VDC Model- Connect +12V DC to Pin 11 (Red wire) on the 18-pin connector.  
Connect DC ground to Pin 4 (Black wire) on the 18-pin connector.

### Inputs and Outputs

Inputs are 0-5V DC Operation Only

Pin Number	Wire Color	Signal Name	Function
Pin 2	Orange	~Interrupt Line	Request to send data to the host.
Pin 4	Black	Ground	DC ground
Pin 5	Green	TXD (Data Output)	Transmit the Data Line from the acceptor.
Pin 10	Tan	Out Of Service	Pulled low by the acceptor when the acceptor is out of service or when the stacker (if so equipped), is full. (5-12 VDC at 40 mA Max.)
Pin 11	Red	+12 VDC Power	+12V Acceptor Power. Note: Do not connect if the optional 120 VAC supply is used!
Pin 12	Violet	Acceptor Enable	Pull low to enable the acceptor.
Pin 13	White/Orange	OOS LED Power	LED Power can be obtained here. This output is a 410-ohm resistor tied to +5V.
Pin 14	White/Blue	~Send Line	Host Ready Signal.

The table below shows the Data sent from the Platinum bill acceptor to the Host.

Message	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Hex Value
\$1 Credit	1	0	0	0	0	0	0	1	81H
Not Used	1	0	0	0	0	0	1	0	82H
\$5 Credit	1	0	0	0	0	0	1	1	83H
\$10 Credit	1	0	0	0	0	1	0	0	84H
\$20 Credit	1	0	0	0	0	1	0	1	85H



\$50 Credit	1	0	0	0	0	1	1	0	86H
\$100 Credit	1	0	0	0	0	1	1	1	87H
Reserved	1	0	0	0	1	0	0	0	88H
Vend	1	0	0	0	1	0	0	1	89H
Return	1	0	0	0	1	0	1	0	8AH
Reject	1	0	0	0	1	0	1	1	8BH
Failure	1	0	0	0	1	1	0	0	8CH
Full or Jam	1	0	0	0	1	1	0	1	8DH

## Harnesses

05AA0009 DB-9 to 18-pin Bill Acceptor (Only for use in 120v Platinum Acceptor)\*  
05AA0002 & 05AA0029 Wire Ended 18 connector

\*DB-9 Connector can be used with a 12VDC unit, customers would need to make their cable.

## RS-232 Mode

This RS-232 Interface is a polling interface where the host machine is the Master and the bill acceptor is the Slave. This is a bi-directional serial interface, the full specification can be found on Pyramid Website or via our developer section.

[https://pyramidacceptors.com/pdf/RS\\_232.pdf](https://pyramidacceptors.com/pdf/RS_232.pdf)

## Power

120 VAC Model- Connect 120 VAC power to Pins 4 (Black wire) and 6 (White wire) on the 9-pin connector.

12 VDC Model- Connect +12V DC to Pin 11 (Red wire) on the 18-pin connector.  
Connect DC ground to Pin 4 (Black wire) on the 18-pin connector.

## Inputs and Outputs

Inputs are 0-5V DC Operation Only

Pin Number	Wire Color	Signal Name	Function
Pin 4	Black	Ground	DC ground
Pin 5	Green	TXD (Data Output)	Transmit Data Line from the acceptor.
Pin 1	Red	+12 VDC Power	+12V Acceptor Power. Note: Do not connect if the optional 120 VAC supply is used!
Pin 16	White / Red	RXD (Data Input)	Transmit Data Line from the host machine.

## Harnesses

05AA0009 DB-9 to 18-pin Bill Acceptor (Only for use in 120v Platinum Acceptor)\*  
 05AA0002 & 05AA0029 Wire Ended 18 connector

\*DB-9 Mode can be used with a 12VDC unit, customers would need to make their own cable.

## RS-232 Mode using USB

Please refer to the above section for RS-232 specification of communication to the Platinum acceptor. USB is available in both the 12VDC and 120VAC models.

### Power

120 VAC Model- Connect 120 VAC power to Pins 4 (Black wire) and 6 (White wire) on the 9-pin connector.

12 VDC Model- Connect +12V DC to Pin 11 (Red wire) on the 18-pin connector.  
 Connect DC ground to Pin 4 (Black wire) on the 18-pin connector.

### Inputs and Outputs

This is the standard USB Type B port on the back of the units.

### Harnesses

05AA0049 USB direct to the rear of Platinum

## MDB Mode of Operation

This is a bi-directional serial interface specific to the vending and convenience services industry. Multi-Drop Bus (MDB). The full specification can be found on NAMA's Website:

<https://namanow.org/nama-releases-mdb-version-4-3/>

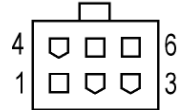
## Power

24V-40V DC

## Inputs and Outputs

Platinum's MDB interface uses the standard MDB connector for communication.

6-PIN (MDB)



### MDB Mode Power and I/O Connections

Pin Location	Pin Description
Pin 1	+34 VDC Power
Pin 2	DC power return
Pin 3	Not used
Pin 4	Master Receive
Pin 5	Master Transmit
Pin 6	Communications Common

## Harnesses

Platinum comes with the required MDB harness part number 05AA0038 installed, if needed a longer length version is available.

Need Assistance?  
Call +1 480-507-0088

7:00 AM to 2:30 PM USA Pacific Time

[support@pyramidacceptors.com](mailto:support@pyramidacceptors.com)

We are here to help!

