CANTALOUPE

CDMA ePort G9 Quickstart Guide

#VVXUD0101910



MOBILE WALLET READY

MOSICOR VISA

DISCOVER

S

LONG

Card Reader

Thank you for your purchase. Before you start, **please read these instructions thoroughly**, and then take a few moments to plan your installation.

You must have a signed ePort Connect Services Contract and a bank account assigned to this device for it to be able to accept credit card transactions. Please call USA Technologies Customer Care at 1.888.561.4748, if you need activation documents.

TOOLS REQUIRED FOR INSTALLATION

11/32" Socket 1/4" Socket 12" Extension Ratchet Phillips Screwdriver Wire Cutters Power Drill* 3/16" & 3/8" Drill Bit* Multi-diameter Step Drill Bit, 1/4"-3/4"*

^{*} Required for surface-mount installations

INSTALLATION PROCEDURES FOR THE G9 EPORT

The G9 ePort® works in vending machines with one or two full bill acceptor openings, allowing the acceptance of credit/debit transactions by using Card Swipe or RF technology payments. The G9 ePort solution works with the MDB vending interface. Additionally, the G9 has interfaces for Coin Pulse systems, along with a serial interface for PC based systems. In both Coin Pulse and Serial Modes, parameters can be modified to meet design requirements.

KIT CONTENTS

Your CDMA Wireless G9 ePort kit includes (Shown in Figure 1 unless noted):

- One G9 Telemeter with wireless modem installed (#VVWUT0101901)
- One Card Reader (Bezel) (#V8SUK1235003)
- One Flange Mount Plate (#V6XUE1520259)
- One Bezel Drilling Template
- One Bezel Adapter Cable (#V6SUC1435003)
- One Magnetic Base Antenna (#V8WUP0101278)
- Mounting Hardware: Four, 8-32 x 3/8" screws for mounting reader, and three self-drilling screws (#DCHZDHH62006)
- NOT PICTURED: Various POS stickers, Troubleshooting Checklist (#V8VUD1101435), RMA Procedure Sheet (#UXXUD0101552), this install guide (#VVXUD0101910), two Velcro strips, six Wire Ties for the Card Reader, and additional order items

BEFORE YOU START, read the instructions and take a few moments to plan your installation. Pick a mounting spot for the G9 Telemeter that will allow for ease of access and does not interfere with any moving parts in your vending equipment.

FIGURE 1 (items not to scale)



G9 Telemeter



Card Reader (Bezel) #V8SUK1235003



Magnetic Base Antenna #V8WUP0101278



Flange Mount Plate #V6XUE1520259



Bezel Drilling Template





 $\label{lem:mounting Hardware \#DCHZDHH62006} Mounting screws, three self-drilling screws.$

1. RSSI SIGNAL STRENGTH TESTING PROCEDURE

Parts Required for RSSI Test: G9 Telemeter and a Magnetic Base Antenna **Optional:** A Card Reader and a High Gain Antenna (see note) of 4' or 8' cable length (#VXWUP1101284 or #VXWUP3101284, respectively)

An RSSI test is done to determine if there is acceptable signal strength at a location before installing. The test also helps to place the antenna for the best reception. Where the antenna receives the best signal will also determine where to mount the Telemeter.

NOTE: A High Gain Antenna should be on hand in the event that the included Magnetic Base Antenna is unable to pick up a sufficient signal. A High Gain Antenna must be purchased separately as it is not included with the kit.

- 1. At the machine location, plug the antenna's cable into the ANTENNA port found on the bottom of the G9 Telemeter. If a Card Reader is present, plug the serial cable from the Card Reader into the Telemeter cable's 6-pin black connector.
- 2. Disconnect the MDB connectors in the vending machine between the machine control board and the bill acceptor and connect the MDB Cable* from the G9 Telemeter to the MDB connectors of the vending machine.
- 3. Place the antenna on top of, or inside the vending machine on a metal surface to perform the test. Make sure the antenna is not surrounded by signal weakening metal support brackets or located near the Telemeter or the control board when the door is shut. This will improve connectivity to the cellular tower.
- 4. Wait until the Telemeter has initialized, which is indicated by a blinking green LED. If a Card Reader is present the display will read "Swipe or Tap to Begin."
- 5. To begin testing, press the Telemeter's RSSI buton. The Telemeter's LEDs will indicate signal strength. And if present, the Card Reader's display will show CSQ: XX, YY; where XX is signal strength and YY is Bit Error Rate. Use the following table to determine signal quality.



RSSI Button

QUALITY	TELEMETER LEDs	CSQ: XX	CSQ: YY
Very poor	none	00 to 07	
Poor	RED	08 to 09	Any value other
Good	RED and YELLOW	10 to 14	than 00 for CSQ:YY indicates addition-
Very good	RED, YELLOW and GREEN	15 to 19	al signal loss.
Excellent	RED, YELLOW, GREEN and BLUE	20 or greater	

- 6. If signal strength is poor or very poor, move the antenna to another location and wait 15 seconds until the signal stabilizes and then recheck. If signal strength is not strong enough with the normal Antenna, try the test with a High Gain Antenna.
- 7. Upon completion of testing, disconnect the G9 Telemeter's MDB cable and reconnect the vending machine MDB connectors.

2. RF/CARD SWIPE READER INSTALLATION

Install the Card Reader according to the design of the vending machine:

- A Machine has a second opening for a bill acceptor take note of screw sizes.
- **B** Machine does not have a second opening for a bill acceptor.
- Machine has a POS window above the bill acceptor.
- **D** Machine has a situation where a spacer is needed.

Yending machine has a second opening for a bill acceptor

- 1. Power down the vending machine door and remove the blank plate that covers the opening.
- 2. Attach the Card Reader to the mounting plate using the four, 8-32 x 3/8" mounting screws.

Correct screws must be used or the Card Reader may be damaged and the warranty will be void.

3. Pass the assembly through the opening from inside the door of the vending machine and secure the mounting plate to the door with the original, blank plate screws.

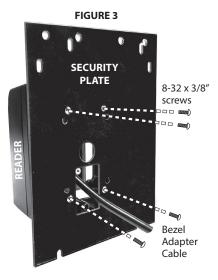


B Vending machine does not have a second opening for a bill acceptor Mount the Card Reader on the outside surface of the vending machine:

- 1. Power down the vending machine door. If necessary, temporarily remove the bill acceptor during the drilling and mounting of the Card Reader.
- Use a small level and tape to secure the included Bezel Drilling template (Figure
 1) where you want the Card Reader to be located, and mark the four mounting
 screw holes and a hole for the cable.
- 4. Drill the four 3/16" holes for the mounting screws.
- 5. Drill the pilot hole for the 5/8" cable hole with a 3/8" bit and finish the hole by using either a 41/64" Greenlee knockout punch (#7211BB-1/2) or a 1/4"–3/4" step drill (McMaster-Carr part 8841A23).
- 6. Mount the Card Reader to the front of the door by using the four, $8-32 \times 3/8''$ mounting screws.

Vending machine has a POS window above the bill acceptor If the vending machine (i.e. the Royal 660, Royal 804, or the Dixie 522) has a POS window just above the bill acceptor (landscape doors), you must install the Card Reader with the Security Plate (#V6XUE0520260). A Security Plate is not included in the kit and can be purchased separately.

- 1. Power down the vending machine.
- 2. Remove the bill acceptor.
- Remove the POS window above the bill acceptor.
- 4. Route the serial cable attached to the back of the Card Reader through the security plate (Figure 3).
- 5. Secure the security plate to the Card Reader with four, 8-32 x 3/8" mounting screws (Figure 3).
- 6. Pass this assembly through the POS window opening from inside the vending machine door, and attach the security plate to the door using the original hardware.
- 7. Replace the bill acceptor.

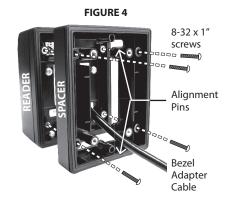


Vending machine has a situation where a spacer is needed

Some machines may require a spacer for the Card Reader to provide proper clearance for card swipes. If this is the case, a spacer and four, 8-32 x 1" long screws are

available from USA Technologies by contacting Customer Service at 888-561-4748. Request Spacer (#V6SUF1435002) and the four, 8-32 x 1" screws that are the correct length for an installation with a spacer. A cost is associated with this part.

To complete the install, follow either the A, B or C instructions above depending on the design of the vending machine, and place the spacer between the cardreader and plate specific to the install and use the the four, 8-32 x 1" screws.



3. INSTALL THE G9 TELEMETER

Follow these steps to install the G9 Telemeter in a vending machine:

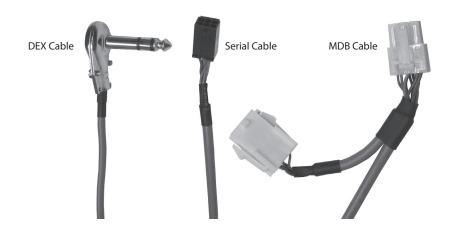
- Decide whether to mount the Telemeter using the three supplied self-tapping screws (Figure 5), or with a strip of Velcro attached to the back of the Telemeter.
- Select a location in the main cabinet or door where the Telemeter is accessible for service and protected from moisture. To prevent any water intrusion, mount the Telemeter vertically with the cables hanging down. Make sure it will not interfere with any moving parts and allow for cable routing.
- 3. If mounting with screws, screw the selftapping screws into the frame of the door or machine. If using Velcro, attach a strip of Velcro to the frame of the door or machine and stick the Telemeter to it.
- Connect the Magnetic Base Antenna (#V8W-UP0101278) MCX connector into the ANTENNA ports found on the bottom of the Telemeter.
- 5. Place the antenna on top of, or inside the vending machine on a metal surface. Make sure the antenna is not surrounded by signal weakening metal support brackets or located near the Telemeter or the control board when the door is shut. This will improve connectivity to the cellular tower. (Figure 6).





- 5. Tie the antenna cable to the nearest cable from the Telemeter.
- 6. Disconnect the MDB connectors in the vending machine between the machine Control Board and the existing payment devices. Connect the MDB Cable from the G9 Telemeter to the MDB connectors going to the machine Control Board and the existing payment devices. Ensure the connectors latch firmly together.*
- 7. Plug the 6-pin black connector from the Telemeter cable into the serial cable from the Card Reader. Ensure the connectors latch firmly together.
- 8. Either connect the DEX cable with the standard jack plug from the Telemeter to the vending machine DEX port (for remote DEX reporting), or leave the DEX cable hanging loose if no remote DEX is to be used. Test all connections made.
- ***NOTE:** When a Bill Recycler is present, the ePort must be plugged into the MDB bus ahead of the Bill Recycler so that it can communicate properly with the VMC.

FIGURE 7 G9 CONTROLLER CABLES



4. VERIFY THE INSTALLATION

- 1. Power up the vending machine and observe the LEDs of the G9 Telemeter. When the green LED blinks, the Telemeter has initialized.
- 2. Once the Telemeter has initialized the HSPA Modem and connected to the wireless network, the Card Reader's display should read "Swipe or Tap To Begin."
- At this point you can perform a test vend with a USA Technologies Pass Card or credit card.
- 4. We recommend recording the ePort G9 Telemeter serial number and vending machine ID for accounting purposes.
- 5. Contact USAT Customer Care if you have any questions 888-561-4748.

You must have a signed ePort Connect Services Contract and bank account assigned to this device for it to be able to accept credit card transactions. Please call USA Technologies Customer Care at 888-561-4748, if you need activation documents.



100 Deerfield Lane, Ste 300, Malvern, PA 19355

CANTALOUPE CUSTOMER CARE

Contact Cantaloupe Customer Care for technical support and to request additional parts, information, and pre-authorization forms.

Phone: 888.561.4748 **FAX:** 610.989.9695

Email: customerservice@cantaloupe.com **Online Store:** https://store.cantaloupe.com/

CANTALOUPE WEBSITE ADDRESSES

Customer Website Login

Company Site

https://www.seedlive.com

https://www.cantaloupe.com

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference
- 2. This device must accept any interference received, including interference that may cause undesired operation.

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This guide was created during the Company's tenure as USA Technologies, Inc.

The Company rebranded to Cantaloupe, Inc. April 19th, 2021. For contact information

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