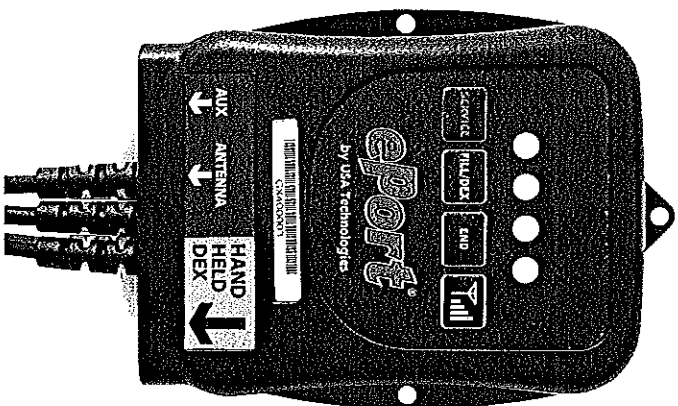


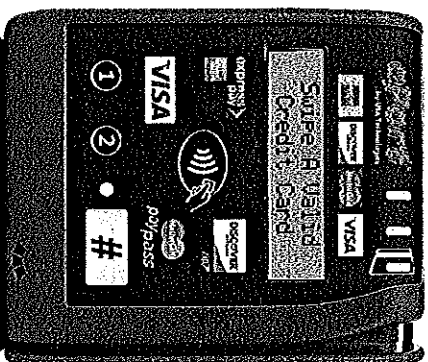
USA Technologies

CDMA ePort G9 QUICKSTART GUIDE

#VXXUD0101900



G9 Telemeter



Card Reader

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 also works with other MDB payment options available for vending machines.

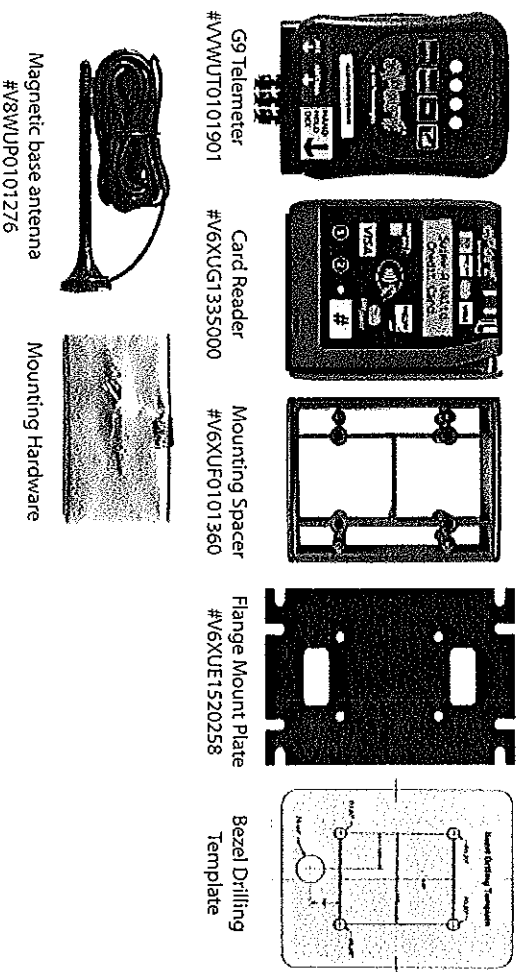
KIT CONTENTS

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

- One G9 Telemeter with wireless modem installed (#VWVUT0101901)
- One Card Reader (#V6XUG1335000)
- One Mounting Spacer (#V6XUUF0101360), pre-attached with four, M4 x 30mm screws.
- One Flange Mount Plate (#V6XUE1520258)
- Bezel Drilling Template
- One Magnetic Base Antenna (#V8WUP0101276)
- Four, M4 x 12mm screws for mounting reader with NO spacer
- NOT PICTURED: Three self-drilling screws (#DCHZDHH62006), Various POS stickers, Troubleshooting Checklist (#V8VUD1101435), RMA Procedure Sheet (#UXX-UD0101552), this install guide (#VWXUD0101900), 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



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

An RSSI test is performed to determine if there is acceptable signal strength before installing a G9 Telemeter in a machine. The test also helps to locate 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 G9 kit.)

Conducting the test using a Card Reader

1. At the machine location, plug the antenna's cable into the ANTENNA port found on the bottom of the G9 Telemeter. Next, plug the serial cable from the Card Reader into the Telemeter cable's 6-pin black connector.
2. Pull apart 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 to perform the test for the planned installation location. Make sure the antenna is not surrounded by signal weakening metal support brackets.
4. Wait until the Telemeter is fully booted and the Card Reader display reads "Swipe a Valid Card to Begin."
5. Press the RSSI button on the G9 Telemeter, and view the results on the Card Reader's display: **poor** < 12,99 < **good** < 20,99 < **excellent**



6. If signal strength is less than 12 (poor), move the antenna. Let it sit for 15 seconds until the signal stabilizes, and then check if the signal strength has improved.
7. After the test is completed, disconnect the G9 Telemeter's MDB cable and reconnect the vending machine MDB connectors.

Conducting the test without a Card Reader

1. Connect Antenna to the G9 Telemeter and the G9 Telemeter to the machine as instructed in steps 1 and 2 above. Place the antenna as instructed in step #3 above.
2. Blue and green LEDs will light and blink as the G9 Telemeter boots up. When the lights go out wait 20 seconds and then press the RSSI button to begin test.

No lights = no signal. Red only is poor and a risk. Red+yellow is fair, but should be better. Red+yellow+green is good. Red+yellow+green+blue is excellent.

5. Follow steps 6 and 7 above to complete the test.

*When a Bill Recycler is present, the ePort must be plugged into the MDB bus ahead of the Bill Recycler to receive enough power to function properly.

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.
- B** Machine does not have a second opening for a bill acceptor.
- C** Machine has a POS window above the bill acceptor.
- D** Machine has situation where 2 spacers are needed.

A Vending 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 and spacer to the mounting plate using the four, 30mm screws.
3. If the spacer is unneeded, attach the reader to the mounting plate with four, 12mm screws (included in hardware kit).
4. 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 8-32 nuts.

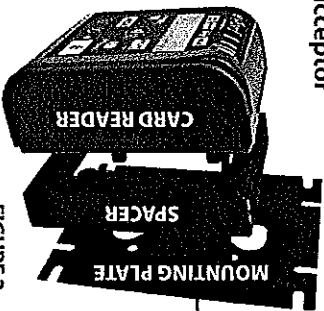


FIGURE 2

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.
2. Use a small level and tape to secure the included drilling template (Figure 1) where you want the Card Reader to be, 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).
8. If no spacer is needed, remove the attached spacer and mount the Card Reader to the front of the door by using the four supplied 12mm screws.

C 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 attached spacer and a Security Plate (#V6XUE0520260).

1. Power down the vending machine.

2. Remove the bill acceptor.

3. Remove the POS window above the bill acceptor.

4. Route the serial cable attached to the back of the Card Reader through the spacer and the security plate (Figure 4).

5. Before attaching the spacer, make sure that the alignment pins (Figure 5) properly fit the back of the Card Reader.

6. Secure the spacer and the security plate to the Card Reader with four, M4 x 30mm screws (Figure 6).

7. 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.

8. Replace the bill acceptor.

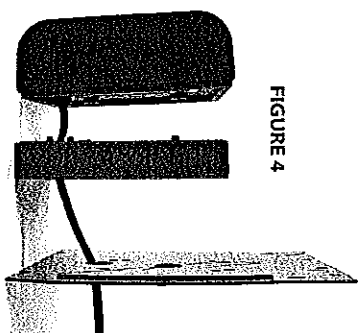


FIGURE 4

FIGURE 5

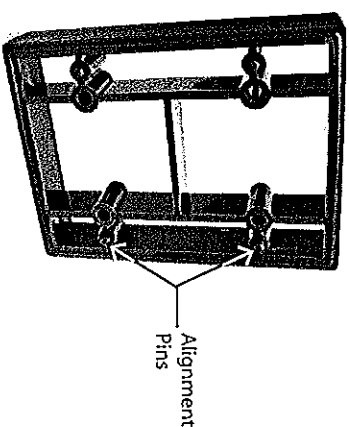
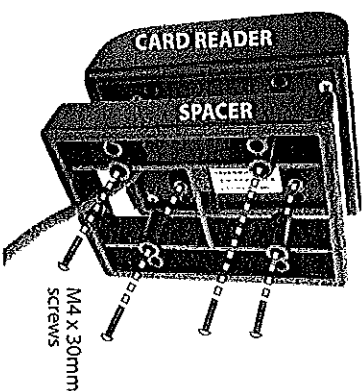


FIGURE 6 (Security plate not shown)



D Vending machine has a situation where 2 spacers are needed

Some machines may require 2 spacers for the Card Reader to provide proper clearance for card swipes. If this is the case, an additional spacer and 45mm long screws are available from USA Technologies by contacting Customer Service at 888-561-4748. Request OTI Spacer (#V6XUF0101360) and the M4 x 45mm screws that are the correct length for a 2 spacer installation. A shipping and handling charge will apply.

To install with 2 spacers, follow either the A, B or C instructions depending on the design of the vending machine. Just use 2 spacers and 50mm screws instead of 1 spacer and 30mm screws.

3. INSTALL THE G9 Telemeter

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

1. Decide to mount the Telemeter using the three supplied self-tapping screws (Figure 8), or with a strip of Velcro attached to the back of the Telemeter.
2. 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 self-tapping 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.
4. Connect the Magnetic Base Antenna (#V8W-UP0101276) to the G9 Telemeter by snapping the MCX connector into the antenna port next to the cables. The Antenna is applied to a metal surface. Make sure the antenna is not surrounded by metal support brackets to allow it to properly connect to a wireless cellular tower (Figure 8).
5. Tie the antenna cable to the nearest cable from the G9 Telemeter.
6. Pull apart the MDB connectors in the vending machine between the machine Telemeter and the existing payment devices. Connect the MDB Cable from the G9 Telemeter to the MDB connectors going to the machine Telemeter and the existing payment devices.*
7. Plug the 6-pin black connector from the Telemeter cable into the serial cable from the Card Reader.
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.

***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.

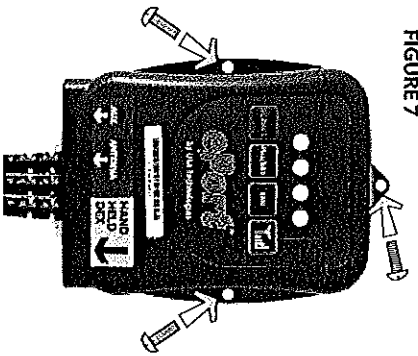


FIGURE 7

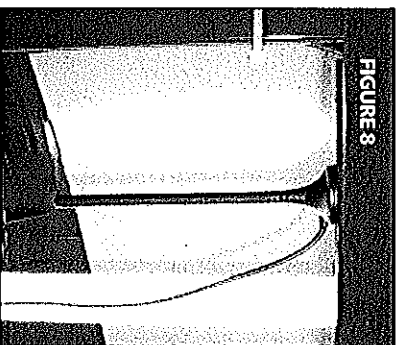
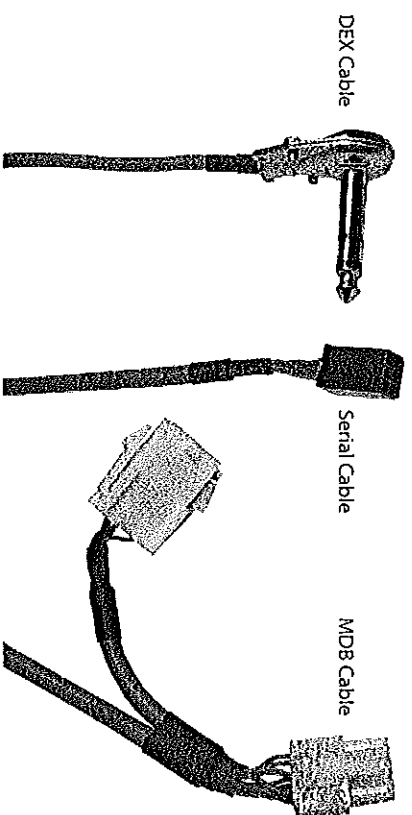


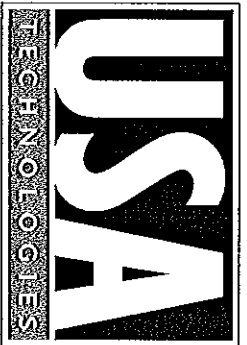
FIGURE 8

FIGURE 9 G9 CONTROLLER CABLES



4. VERIFY THE INSTALLATION

1. Power up the vending machine and observe the display of the G9 Telemeter.
 2. Once the Telemeter has initialized the CDMA Modem and connected to the wireless network, the Display should read "Swipe a Valid Card To Begin."
 3. Press the red **SERVICE** button to force the Telemeter to connect to USALive.
 4. Wait for the message "**System Update Complete.**"
 5. At this point you can perform a test vend with a USA Technologies Pass Card or credit card.
 6. We recommend recording the ePort G9 Telemeter serial number and vending machine ID for accounting purposes.
 7. Contact USAT Customer Care if you have any questions – 1.888.561.4748.
- Customers must have a signed service agreement with USA Technologies, Inc., for the ePort to approve a credit card.**



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Malvern, PA 19355

CONTACT INFO

USA TECHNOLOGIES CUSTOMER CARE

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

Phone: 888.561.4748

FAX: 610.989.9695

Web: <http://www.usatech.com>

Email: customersupport@usatech.com

USA TECHNOLOGIES WEBSITE ADDRESSES

Launch your web browser and enter the addresses below for:

Manuals and Activation Forms

<http://www.usatech.com/manuals>

Customer Website Login

<http://usalive.usatech.com>

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