



# User's Manual

Version 1.0.2

June 2009

Impatica Inc.

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# Legal Notice

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This software is based in part on the work of the Independent JPEG Group.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own cost.

Patent pending.

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Several parts of this manual have been taken directly from the DLI-8300 product manual produced by the hardware manufacturer: Data Ltd., Inc. The original manual is named "**8300 Quick Reference Guide.pdf**" and should be considered the final authority on all matters pertaining to the hardware components of the viaDash product. A copy of the **8300 Quick Reference Guide.pdf** can be obtained from:

1. The CD-ROM that came with the terminal;
2. The Impatica website: [www.impatica.com/download/viadash/8300\\_Reference\\_Guide.pdf](http://www.impatica.com/download/viadash/8300_Reference_Guide.pdf); or
3. The Data Ltd., Inc. website: <http://www.data ltd.com/support.html>

# SECTION 1: INITIAL INSTALLATION AND SETUP

## *Handheld Requirement*

BlackBerry smartphone with device software 4.2.2 or higher

## *Installing BlackBerry Software*

In order to ensure that the current version of the handheld software is used, Impatica asks that you obtain the handheld software from our website. Based on the device software version of your BlackBerry, follow the appropriate download and installation option listed on this page:

[www.impatica.com/bb](http://www.impatica.com/bb)

To determine the device software version that is installed on your BlackBerry device, select: “**Options**” -> “**About**”.

When prompted, allow the application to set the Application Permissions and then save these changes.

Once you have installed the application, you must ensure that the necessary application settings and IT policies are set:



### **IT POLICY REQUIREMENTS:**

**In order to enjoy unrestricted functionality of Impatica viaDash using a BlackBerry handheld connected to a BlackBerry Enterprise Server (BES), the BES Administrator must ensure the following IT Policies are set:**

- Allow third party application downloads
- Allow third party apps to use serial port

### **For USB communication:**

Allow third party applications to use serial port—Set to TRUE

### **For over-the-air installation:**

Allow third party application downloads—Set to TRUE

## Application Permissions:

In order to use Impatica viaDash, you must ensure that your application settings are properly configured by performing the following steps:

1. Navigate to Options > Security Options > Application Permissions
2. Select Impatica Connector/BB Dock (on 4.2.2 devices) from the list
3. Select *Edit Permissions*, then either:
  - (a) set all items under *Connections* and *Interactions to Allow*; OR
  - (b) set the following specific permissions to *Allow*:
    - Under Connections:
      - USB (only if USB connection is required)
      - Phone
    - Under Interactions:
      - Interprocess Communication or Cross Application Communication (4.6+)
      - Keystroke Injection or Input Stimulation (4.6+)
      - Screen Capturing or Recording (4.6+)

**Note:** If your BlackBerry is associated with a BlackBerry Enterprise Server ("BES") or ever has been associated with a BES, you may not be able to change the application permissions. In that case, an application control policy would need to be set on your BES and the Impatica Connector application would have to be pushed to the device with these settings set to Allow.

## Registering Impatica viaDash

The copy of Impatica software included with your purchase of viaDash has already been registered.

Your registration information should have been provided to you via e-mail when you purchased viaDash.

If at any time you wish to change the software registration:

Launch viaDash

Go to the **Help** menu and choose **Register...**

Enter the new or original registration information in the fields provided.

Enter your name, organization and registration code in the fields provided.

**Ensure** that the information is entered in exactly the same way as it appeared in the registration information provided to you by Impatica.

## ***Impatica viaDash Preferences Settings***

The Impatica software included with your purchase of Impatica viaDash has had the preferences file adjusted so that the software will appear in Tablet Mode. Within Tablet Mode the software has been modified for optimal full screen use on the Tablet PC touch screen real estate. This layout is referred to as **Normal View**.

The following interface elements can be added to the software interface if desired. The addition of these elements is referred to as **Optional View**:

- Menu Bar
- Status Bar
- Application Launcher Ribbon
- Mini View

In order to change the application from **Normal View** to **Optional View**, do the following:

- 1- Navigate to "C:\Documents and Settings\Administrator\Local Settings\Application Data\Impatica\Impatica viaDock\1"
- 2- Open the preferences file named: **preferences.properties**
- 3- Change the line **tablet.mode=true** to **tablet.mode=false**
- 4- Launch the software (Impatica viaDock Icon on Tablet PC desktop) and it will now be in **Optional View**.
- 5- The software component of viaDash will remain in **Optional View** mode until you change the tablet.mode preferences setting back to true.

The different views are outline in **Section 3: Software Overview**

# SECTION 2: SOFTWARE OVERVIEW

Thank you for selecting Impatica viaDash.

Impatica viaDash combines both hardware and software solutions. The software transforms your BlackBerry into an in-vehicle computer. The software allows you to access your BlackBerry from the Tablet PC included with your Impatica viaDash purchase. This enables you to use the large touch screen monitor and on-screen keyboard to operate your BlackBerry.

## *Benefits*

**Flexible:** Access to BlackBerry applications is possible both in and out of the vehicle.

**Simple:** Large screen view, touch screen and keyboard support make accessing BlackBerry applications easy and straight-forward. Using the same system inside and outside of the car means that there is a single platform for officers to learn and use.

**Economical:** Impatica viaDash and BlackBerry make an inexpensive alternative to rugged in-vehicle PCs. Alternatively, it is possible to leverage existing investments in hardware as the transition to a completely mobile device is made. In addition, software licensing, system maintenance and training costs are reduced.

**Secure:** Data access is available only through the BlackBerry. BlackBerry security measures are employed both in and out of the vehicle, and data access capability leaves the car with the officer.

**Safe:** Avoids officers using a tiny keyboard and looking at a small screen while in vehicle.

## *Additional Features*

- Integrated device with touch screen display
- Provides large view of BlackBerry screen
- Provides secure USB connection
- Gives quick access to BlackBerry functions
- Includes easy-to-use touch-keyboard
- Supports external keyboard, pointing device and other USB peripherals
- Designed for in-vehicle mounting and use

## *Impatica viaDash Tour*

Impatica viaDash can be operated in **Normal View**, **Optional View** or **Mini View**. The **Normal View** displays the handheld screen, supports input from your PC keyboard and mouse and offers a variety of time-saving tools for operating your BlackBerry. The **Optional View** is identical to the **Normal View** but runs the software component of viaDash as a standard Windows application. This results in an application

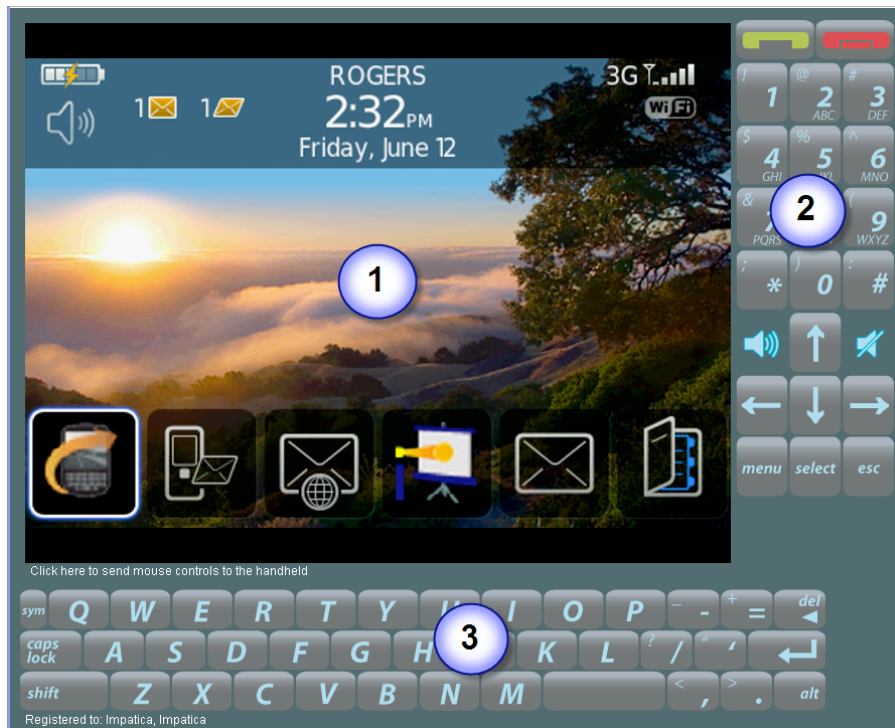
title bar, application menu items, application launcher ribbon and a status bar appearing. The **Mini View** is a small palette that can be kept in view while using other applications so that you may monitor your BlackBerry status and quickly place and receive phone calls. The **Mini View** is only available if you are using the **Optional View**.

## **Normal View**

### **Standard viaDash Installation**

The **Normal View** includes 3 areas as depicted below:

1. **Handheld screen area:** Provides a live display of your BlackBerry screen. The size of this area can be changed by resizing the entire viaDash window, or by using *View > Handheld Zoom*. The quality of the handheld screen area can be set to either high quality or quick by using *View > Handheld Quality*.
2. **Phone controls:** Includes answer and hang-up buttons, numeric keypad, hands-free and mute buttons, arrow buttons for navigating the BlackBerry and menu, select and escape buttons for controlling the BlackBerry. Display of these controls can be turned on off using the phone control button in the status bar, or by using *View > Phone Controls*.
3. **Keyboard:** Provides an on-screen keyboard for input to the BlackBerry, suitable for use with touch-screens (e.g., Tablet PCs). Display of the on-screen keyboard can be turned on and off using the keyboard button in the status bar, or by using *View > Keyboard*.



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



## Optional View:

Preferences File Adjusted Add entry: `tablet.mode=false` to the preferences file

The **Optional View** includes the 5 areas as outlined below and also has a standard application title bar that contains menu items, minimize, maximize and close buttons.

1. **Handheld screen area:** Provides a live display of your BlackBerry screen. The size of this area can be changed by resizing the entire viaDash window, or by using View > Handheld Zoom. The quality of the handheld screen area can be set to either high quality or quick by using View > Handheld Quality.
2. **Phone controls:** Includes answer and hang-up buttons, numeric keypad, hands-free and mute buttons, arrow buttons for navigating the BlackBerry and menu, select and escape buttons for controlling the BlackBerry. Display of these controls can be turned on off using the phone control button in the status bar, or by using View > Phone Controls.
3. **Keyboard:** Provides an on-screen keyboard for input to the BlackBerry, suitable for use with touch-screens (e.g., Tablet PCs). Display of the on-screen keyboard can be turned on and off using the keyboard button in the status bar, or by using View > Keyboard.
4. **Application Launcher:** Includes shortcut icons for all of the applications currently running on the BlackBerry. Click any of the icons to quickly switch applications. Display of the application launcher can be turned on and off using the application launcher button in the status bar, or by using View > Application Launcher.
5. **Status Bar:** Displays the BlackBerry's current battery strength, radio signal strength and incoming call notifications. Also provides buttons for showing and hiding other viaDash screen areas, turning on and off clipboard sharing and switching to **Mini View**. Display of the status bar can be turned on and off using View > Status Bar.



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## **Mini View**

**Only available when running the software in Optional View**

The **Mini View** is a small window (shown below) that can be kept visible while using other PC applications. This is useful if you are installing additional applications on the Tablet PC.



It provides you with ongoing status of your BlackBerry, including notification of incoming calls. Call answer and hang-up buttons are provided for quickly answering and placing calls. Hands-free and mute buttons are also available to simplify controlling your BlackBerry. A quick dial field is provided, allowing you to place a call by simply entering a phone number then clicking the green call answer button.

To return to **Normal View**, click the **Normal View** button in the status bar.

## **Basic viaDash Operation**

### **Getting Started with Impatica viaDash**

In order to start using Impatica viaDash, you will need to complete the following steps:

1. Turn on the Impatica viaDash Tablet PC
2. The Impatica software should automatically start after the operating system start-up has completed
3. Connect your BlackBerry to the viaDash unit by placing the BlackBerry in the handheld cradle or through a USB cable
4. Follow the instructions in the "Connecting to your BlackBerry" section

### **Connecting to your BlackBerry**

Once the Impatica viaDash software is running on the Tablet PC, it will be waiting for a connection to your handheld. Impatica viaDash can connect to your handheld through USB.

#### **USB**

1. Use a USB cable to plug your BlackBerry handheld into one of the USB ports on the bottom of either the in-vehicle dock or the Tablet PC unit itself.
2. On the BlackBerry, launch the **Impatica Connector** application.
3. Select USB Connection from the list of Impatica enabled devices.

## Controlling your BlackBerry

Using the Impatica viaDash, you can operate your BlackBerry through your keyboard, mouse and on-screen controls, as follows:

### Keyboard:

Use the alpha-numeric keys on your keyboard to type on your BlackBerry.

Use the arrow keys on your keyboard in place of your BlackBerry trackball or trackwheel to navigate your BlackBerry

Use the following keyboard shortcuts to operate your BlackBerry:

Key	BlackBerry Control
Letters and numbers	Letters and numbers
Arrows up, down, left right	Trackball up, down, left, right
Number pad (num lock off): 2, 4, 6, 8	Trackball down, left, right, up
Tab	Menu
Insert	Menu
` (~ without Shift)	Select
F9	Select
5 on number pad (num lock off)	Select
Esc	Escape
Home	Dial
End	Hang-up
Enter	Enter
Backspace	Backspace
Delete	Delete
Ctrl-C	Copy
Ctrl-X	Cut
Ctrl-V	Paste

### On-screen controls:

Use the Impatica viaDash on-screen phone controls to start and end phone calls, turn on and off speaker phone and mute and to enter numbers on your BlackBerry;

Use the on-screen keyboard to type using a mouse; and

Use the application shortcuts or Go menu to quickly switch between BlackBerry applications (only available in **Optional View**).

**Mouse:**

Click on the text below the handheld screen area of the Impatica viaDash to enter mouse control mode and start navigating your BlackBerry using an external pointing device.  
Click the left mouse button to select and the right mouse button to escape on the BlackBerry.  
To stop using your mouse to control your BlackBerry, press alt+z or click the scroll wheel.

**Scroll Wheel:**

At any time, you can use your scroll wheel to navigate your BlackBerry.  
Scroll your scroll wheel up and down to navigate your BlackBerry.  
Click the scroll wheel to select (when not in mouse control mode).  
Click the right mouse button to escape.

## ***Disconnecting from your BlackBerry***

When you wish to stop using the viaDash with your BlackBerry, terminate the connection using any of the following methods:

On the BlackBerry, select the **Impatica Connector (Impatica Screen Projector)** application. From the **Stop Projecting** dialog box that appears click **OK**;  
Or  
If connected via USB, disconnect the cable.  
Or  
Remove the BlackBerry from the dock.

## ***Switching BlackBerry Application (available in Optional View only)***

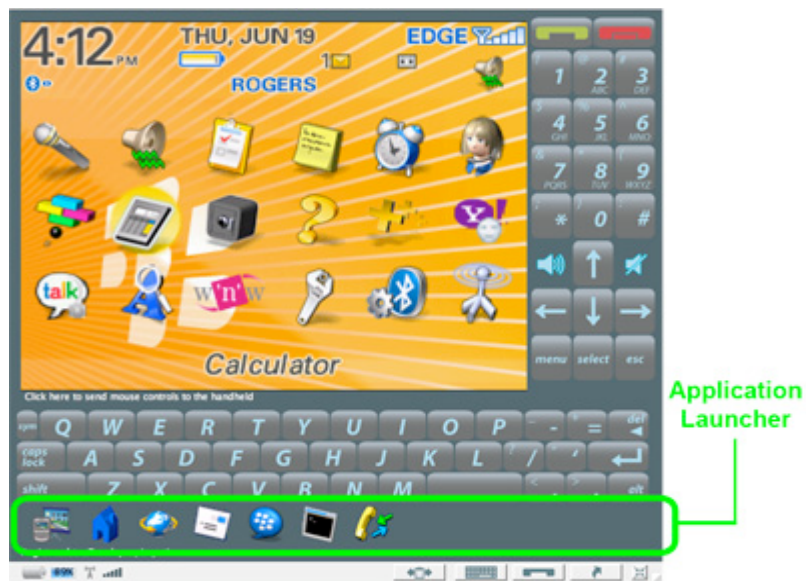
Impatica viaDash offers the following quick ways to switch between the applications that are currently running on your BlackBerry:

Using the Application Launcher  
Using the Go menu

The following section will explain both of these methods in detail.

### **Using the Application Launcher (available in Optional View only)**

Impatica viaDash provides an application launcher that enables you to quickly switch between all applications currently running on your BlackBerry, as depicted below:



Application icons will automatically be added to the application launcher when the application starts on the BlackBerry. When an application on the BlackBerry closes, the icon will disappear from the application launcher.

To switch applications, simply click the icon for the application you would like to use. To hide or show the application launcher, either click the application launcher button in the status bar or from the **View** menu, choose **Application Launcher**.

### Using the Go Menu (available in Optional View only)

Impatica viaDash includes a **Go** menu, which allows you to quickly switch between applications that are running on your BlackBerry. Applications are automatically added to and removed from the Go menu as they start and stop on the BlackBerry.

To switch BlackBerry applications using the **Go** menu, simply click on the **Go** menu and choose the BlackBerry application you wish to use.

## Troubleshooting Impatica viaDash

Should you encounter any problems while using Impatica viaDash, please do the following:

1. Review all of the topics in this Help system and follow any relevant instructions given.
2. Check the Impatica Knowledgebase for an answer to your question – both the viaDash and viaDock sections may contain the answer.
3. If you cannot find an answer to your question, please contact Impatica Customer Support.

The following section will explain how to contact Impatica Customer Support.

### Using the Impatica Knowledgebase



The Impatica Knowledgebase is an online, searchable repository containing answers to frequently asked questions related to Impatica Products.

To access the Impatica Knowledgebase, go to <https://www.impaticize.com/impkb/> and either do a keyword search for topics of interest or browse the different product categories listed on the front page.

### Contacting Impatica Customer Support

If you encounter any difficulty using Impatica viaDash, or have any questions about the product, please contact Impatica Customer Support using one of the following methods.

#### By E-mail:

- Please e-mail Impatica Customer Support at [support@impatica.com](mailto:support@impatica.com).

#### By Phone:

- In North America, call 1-800-548-3475
- Outside of North America, call 613-736-9982

Please note that Impatica Customer Support is open 8:30 am to 5:00 pm Eastern Time, Monday through Friday and is closed all national and provincial holidays.

# SECTION 3: viaDash OVERVIEW

## *Introduction*

### **TRANSFORM YOUR BLACKBERRY INTO AN IN-VEHICLE COMPUTER**

**Save Money.** Impatica in-vehicle dock and BlackBerry make an affordable in-vehicle computing system.

**Make in-vehicle computing easy.** Give officers a single computing platform. Improve BlackBerry in-vehicle use with a large-screen display, easy input, quick access to key applications and phone functions.

**Be secure.** Leverage all BlackBerry security capabilities and keep all data access on the officer.

**Be safe.** Avoid officers typing on a tiny keyboard and looking at a small screen while in vehicle.

### **BENEFITS**

**Flexible:** Access to BlackBerry applications is possible both in and out of the car.

**Simple:** Large screen view, touch screen and keyboard support make accessing BlackBerry applications easy and straight-forward. Using the same system inside and outside of the car means that there is a single platform for officers to learn and use.

**Economical:** Impatica in-vehicle dock and BlackBerry make an inexpensive alternative to rugged in-vehicle PCs. Alternatively, it is possible to leverage existing investments in hardware as the transition to a completely mobile device is made. In addition, software licensing, system maintenance and training costs are reduced.

**Secure:** Data access is available only through the BlackBerry. BlackBerry security measures are employed both in and out of the vehicle, and data access capability leaves the car with the officer.

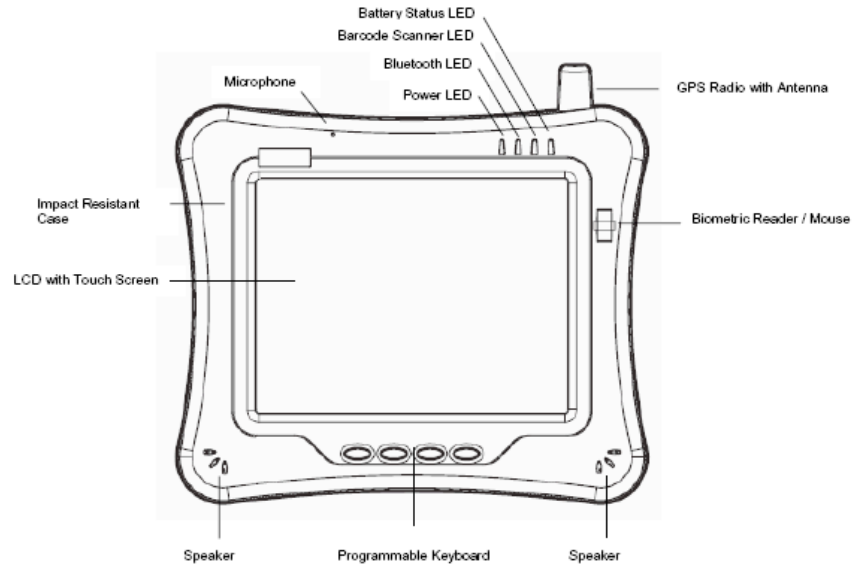
**Safe:** Avoids officers using a tiny keyboard and looking at a small screen while in vehicle.

## Inside the Package

The Impatica viaDash package includes everything you need to transform your BlackBerry into an in-vehicle computer. The Impatica viaDash console is manufactured by Data Ltd., Inc. (DLI) and the specific Tablet PC model is DLI 8300 Terminal. For more information you may wish to check their website and/or the CD-ROM included with the Impatica viaDock console. Web Address: [www.data ltd.com](http://www.data ltd.com)

## Hardware Overview

### Front Panel

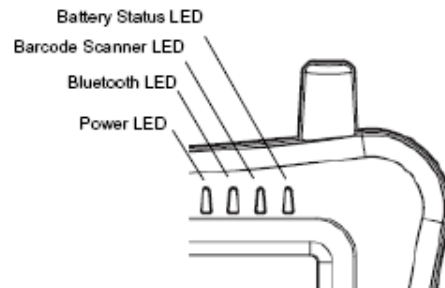


### Front Panel Status Indicator Lights

**Note:** The Impatica viaDash console does not currently support Bluetooth or Barcode Scanners.

The front panel includes status indicator lights for the following:

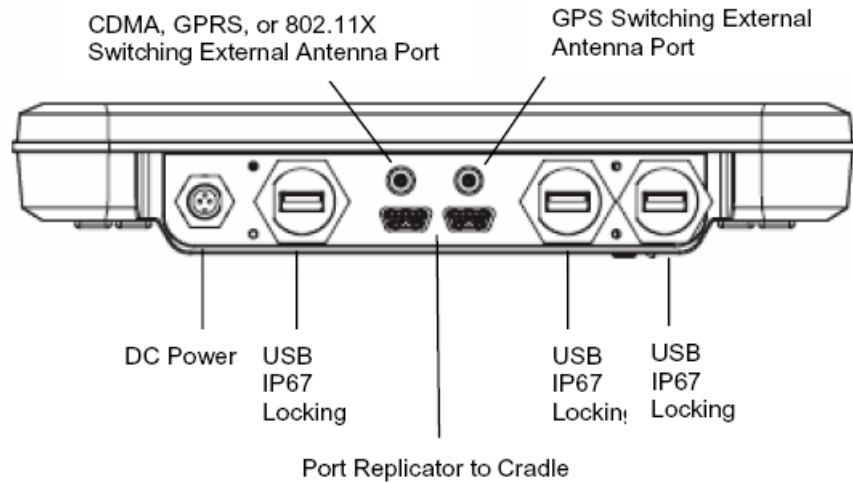
- Power On and Off
- Bluetooth
- Barcode Scanner
- Battery



Indicator Light	Status	Description
Power	Solid Green	Power On
Bluetooth	Blinking Blue	Enabled
	No Light	Disabled or Not Available
Barcode Scanner	Red Light	Scanner Active
	Green Light	Successful Decode
Battery Indicator Light	Status	Description
Power	Solid Green	Power On
Battery	Solid Green	Capacity level greater than 99%
	Blinking Green	Charging
	Blinking Red	Capacity level less than 10%
	No Light	Running on battery

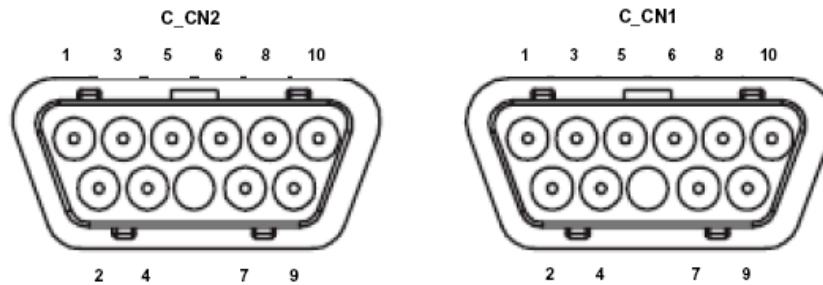


## Bottom Panel



### Bottom Panel Features

The bottom panel features a custom, industrial grade connector with 20 pins. When seated in the Impatica viaDash console dock, the terminal is powered, the main battery charged, and communication occurs via this connector.



Mechanical Connector

be

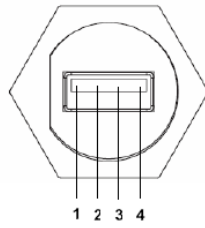
Pin #	Description
1	(+5V)
2	GND
3	GND
4	GND
5	(+5V)
6	GND
7	GND
8	VIN 18-22V
9	VIN 18-22V
10	VIN 18-22V

Pin #	Description
1	USB3 +
2	USB3 -
3	USB2 +
4	USB2 -
5	*USB4 +
6	*USB4 -
7	(+RXD)
8	(+RXD)
9	(+TXD)
10	(-TXD)

\* USB4 Optional

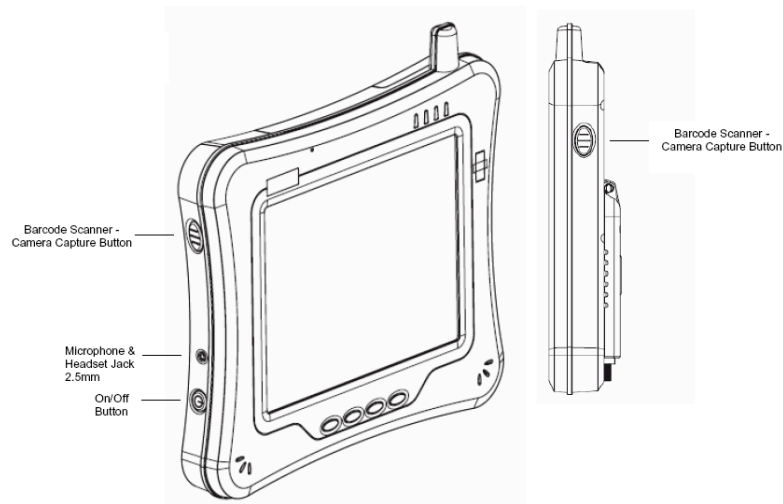
## USB Connectors

The bottom panel features three locking standard USB, industrial grade connectors.

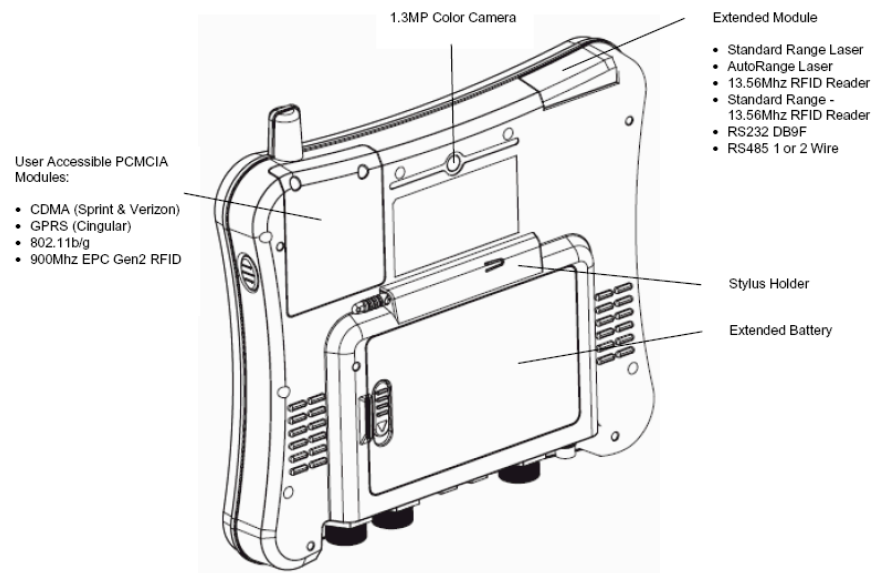


Pin #	Description
1	(+5V)
2	Data +
3	Data -
4	GND

## Side Panel



## Back Panel



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## Charging the Battery

The battery for the terminal is located inside the terminal.

An extended battery is available but is not provided as part of the viaDash hardware. If an extended battery is purchased directly from the manufacturer, and both batteries are attached to the terminal, the main battery charges first and then the extended battery. If the extended battery is placed in the terminal the power is drawn from the extended battery first and then the main battery. Both batteries power the terminal independently which provides the ability to “hot swap” the extended battery.

Power is switched from the extended battery to the main battery once the level of capacitance is decreased to 3%. If the extended battery is pulled from the terminal, the main battery will provide power to the terminal. If the main battery power level is below 5% and the extended battery is pulled, the terminal will revert to Standby mode.

For charging, use the Impatica viaDash console peripheral and the power cables provided by Impatica Inc. Use of peripherals or cables not sold by Impatica Inc. will void the warranty and may damage the terminal.

### Charging the Batteries in the Impatica viaDash console

1. Connect the Impatica viaDash Console to the power supply provided by Impatica Inc.
2. The battery packs begin charging immediately
3. Charge the batteries for four hours, then power on the terminal.

**Note:** The batteries will charge even if the terminal is in use as long as AC is applied to the terminal.

### Charging the Batteries in the Vehicle Cradle

1. Connect the vehicle cradle to the power supply or cigarette light adapter provided by Impatica Inc.
2. Push the top brace down until the LED on the front of cradle lights solid green to indicate that the terminal is properly seated.
3. The battery packs begin charging

Terminals are shipped with batteries completely discharged. **Charge the main battery pack and extended battery pack (if ordered) for a minimum of 4 hours before initially using the terminal.**

## Checking the Battery Power

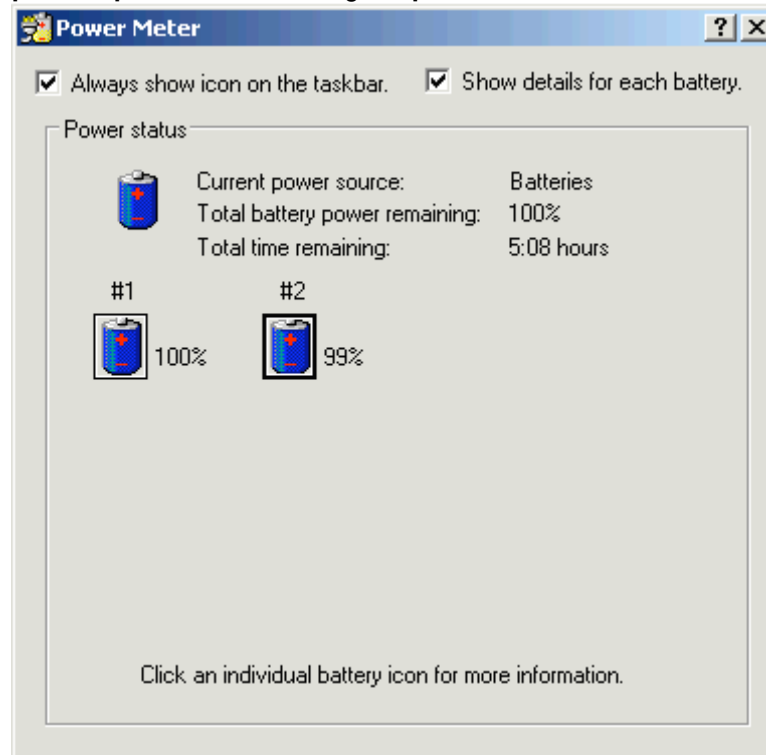
The battery power can be checked from two areas on the Impatica viaDash console. The battery icon will provide a graphical representation of the remaining battery power. If the internal battery and extended battery are both attached, the power level is a cumulative charge of both batteries.


1. Tapping on the battery icon in the system task bar.



2. The power meter is also accessible via the **control panel**, tapping on

power options and choosing the power meter tab.



 *Lithium-ion batteries should be disposed of at a hazardous material recycling center. Do not throw these batteries in a waste receptacle as the batteries could end up in a landfill.*

## Vehicle Cradle

### Impatica viaDash Console Vehicle Cradle

#### Overview

The Vehicle Cradle is designed specifically for in-premise and in-transit wireless data collection applications. It features a quick release locking mechanism, flexible mounting, and power options for all types of applications and devices.

When the Impatica viaDash console is seated in the Vehicle Cradle, both the internal and external battery packs are charged in 4 hours. The configurable I/O ports support USB, RS232, and Ethernet. All with the DLI Locking connector which provides security and reliability. The patent pending RF design provides the operating the easy of using internal and external antennas without unscrewing connections.

**Note:** The Ethernet connector, while present on the Vehicle Cradle, is not connected to any connector on the Tablet PC

### Charging

The Vehicle Cradle completes a full charge on the internal and external battery pack in less than four hours. The Vehicle Cradle also provides power to the intelligent battery charging system in the Impatica viaDash console that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge.

### Communications

The Vehicle Cradle transmits via USB 2.0 and serial devices at speeds of up to 115K baud. The Ethernet transmits at 10/100 mbps.

**Note:** The Ethernet connector, while present on the Vehicle Cradle, is not connected to any connector on the Tablet PC

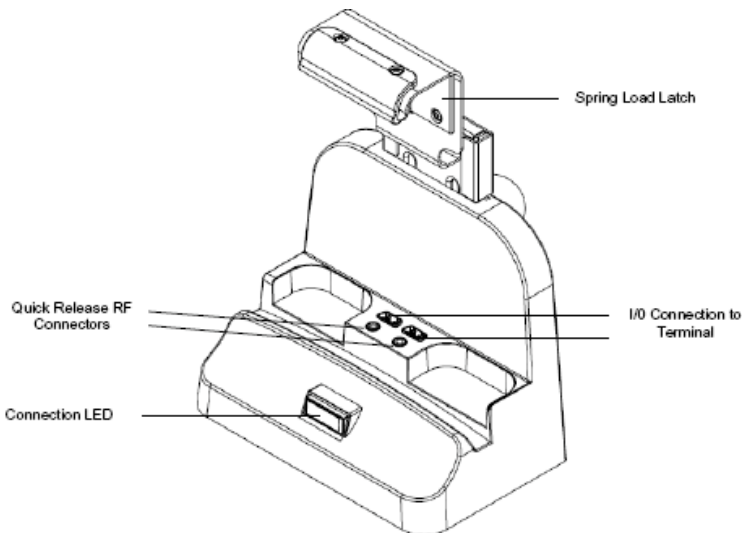
### RF Communication

The Impatica viaDash console Terminal with its integrated RF switching circuit provides a pass through for the RFexternal connectors. This technology optimizes the ability for quick disconnect from the cradle and switches the RF signal from the cradle to the internal antennas on the Impatica viaDash console Terminal.

Use only Impatica viaDash console peripherals, power cables, and power adapters. Use of peripherals, cables, or power adapters not sold by Impatica Inc. Inc. will void the warranty and may damage the terminal.

Use only Li-ion battery packs provided by Impatica Inc. The use of any battery pack not sold/manufactured by Impatica Inc. will void the warranty and may damage the terminal.

### Front Panel

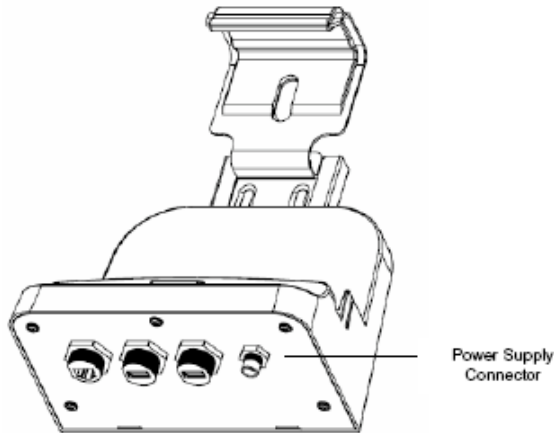


#### Connection LED

Indicator LED	Status	Description
Connection	Solid Green	Connection established with Terminal
	No Light	Connection not established with Terminal
	No Light	Terminal is not powered up

### **Bottom Panel**

The I/O and the power supply connector are located on the bottom of the unit.



### **Power Supply Connector**

The connector is to be used with the DLI series of power supplies. Please see below for a reference of those recommended power sources.

The Vehicle Cradle can be powered by an external DC power source of 18VDC~22VDC. An optional internal 12VDC~48VDC regulated power supply is available.

Verify that the power source is always within the specification range and observe correct input voltage polarity. An improper input voltage range above 22VDC (standard) or above 48VDC (optional) or reverse polarity could damage the power conversion circuitry.

### **Recommended Power Supplies:**

Impatica viaDash console -AC AC Adapter W/Line Cord

Impatica viaDash console -CIG Cigarette Lighter Adapter for charging the unit in a vehicle

Impatica viaDash console -VMC-DC Internal to the Cradle 12VDC~48VDC power regulator

### **USB Communication Port**

The Vehicle Cradle was designed with IP67 locking USB connectors. Locking USB cables are available for the Symbol LS3408 & DLI-QWERTY-1 Keyboard. Standard USB cables can be connected to the vehicle cradle.

### **RS232 Communication Port**

Use a standard serial cable to connect the unit to a host device via RS232; see Vehicle Cradle

### ***Ethernet Communication Port***

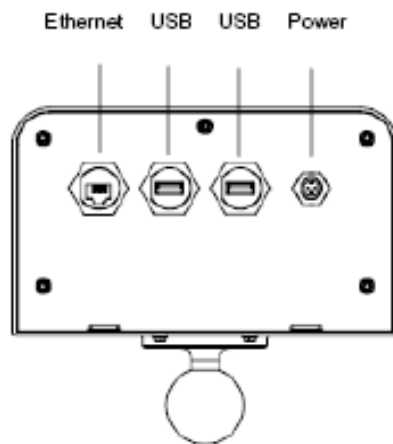
The Locking Ethernet connector supports 10/100 mbps communication. Standard Ethernet cables can be use to attached the cradle to host system.

**Note:** The Ethernet connector, while present on the Vehicle Cradle, is not connected to any connector on the Tablet PC

### ***Quick Release RF Connectors***

The Vehicle Cradle patent pending quick release RF connectors provide a switching pass through to the RF connectors on the bottom of the cradle. The 2 options available are FME for cellular support and SMA for GPS support. Should you require a customer connection please consult your distributor or Data Ltd sales representative.

### ***Connector Locations***

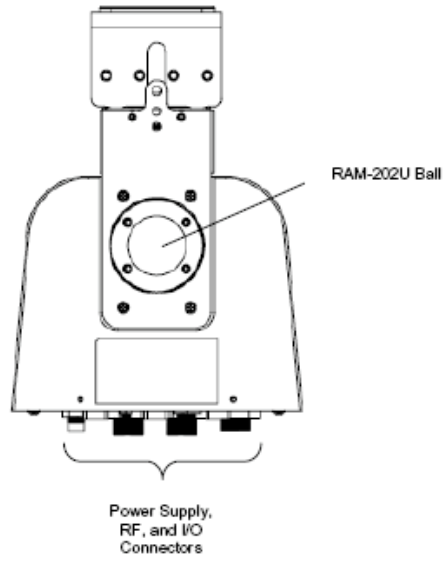


**DLI-8300-VMC-1**

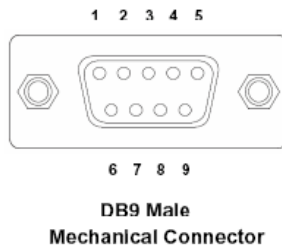
**Note:** The Ethernet connector, while present on the Vehicle Cradle, is not connected to any connector on the Tablet PC.

### ***Installing the Vehicle Cradle***

Mounted to the back panel of the Vehicle Cradle is RAM-202U ball. Optional RAM mounting arms are available for a variety of secure options. When selecting a location to mount the cradle. Keep in mind that the power supply, RF connectors, and I/O point straight out of the bottom panel.



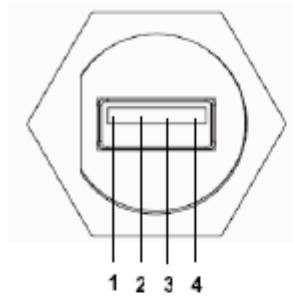
### Vehicle Cradle Connectors



Pin #	Description
1	DCD
2	TXD
3	RXD
4	DSR
5	GND
6	DTR
7	CTS
8	RTS
9	+5V / RI (Optional)

(Optional) RI signal for external modem. This option requires internal jumper.

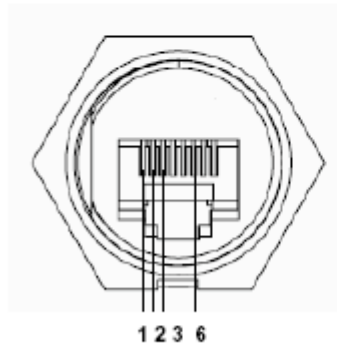




Pin #	Description
1	(+5V)
2	Data +
3	Data -
4	GND

**USB**

**Mechanical Connector**



Pin #	Description
1	TX+
2	TX-
3	RX+
6	RX-

**Ethernet**

**Mechanical Connector**

**Note:** The Ethernet connector, while present on the Vehicle Cradle, is not connected to any connector on the Tablet PC.