



## Wireless USB Adaptor

*Reference Design Kit*

Thank you for purchasing the Artimi Wireless USB Adaptor Reference Design (ADP-RDK) sample kit.

The ADP-RDK allows you to quickly and easily enable many of today's common USB devices with Wireless USB based on Certified Wireless USB from the USB-IF. It allows you to experience for yourself how these devices would operate when wirelessly enabled with Artimi's production ready Wireless USB solutions.

Targeted specifically at USB connected hard disk drives and other storage type devices, this version of the ADP-RDK supports nearly all devices which adhere to the USB 2.0 specification for the mass storage class.

**In addition to the contents of the evaluation kit, you will need the following:**

- A PC with available USB 2.0 compliant port. This PC must run Windows XP (SP2) or Windows Vista.
- A USB 2.0 compliant device which includes standard mass storage class support.
- USB cable for connecting the USB device to a standard USB type 'A' plug. This may have been supplied with the device.



*USB Type 'A' plug*

***This quick start guide is designed to help you set up and begin using Artimi's Wireless USB solutions.***

Before continuing, please check that all of the following items are included with your ADP-RDK sample kit. If any items are missing, please contact Artimi through the ArtimiCustomer support portal (details of how to access the portal should be included with your ADP-RDK package) with a description of the missing item(s).



*Device Side  
Wireless Adaptor*

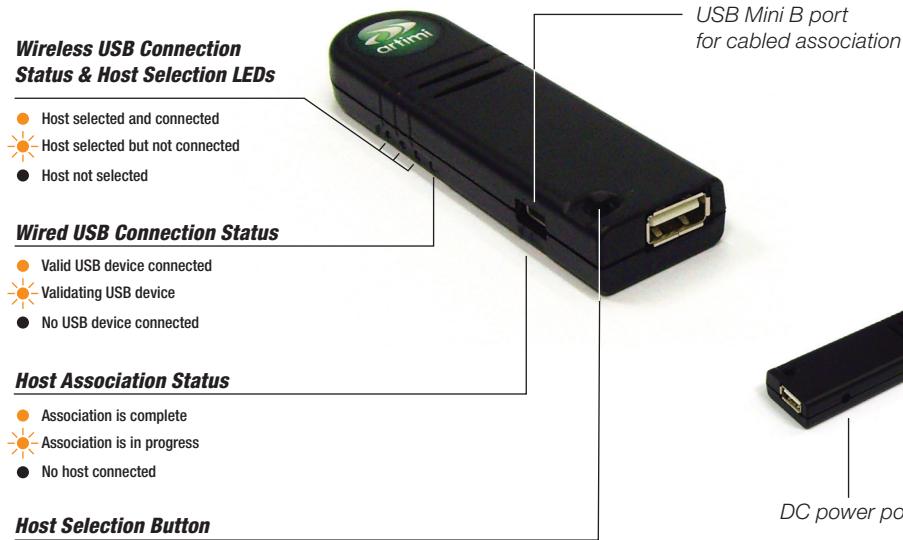
*Host Side  
Wireless Adaptor*



*Power Adaptor for  
Device Side Adaptor*

## Device Overview

### Device Side Wireless Adaptor



### Host Side Wireless Adaptor

#### Wireless USB Connection Status

- Communicating with a wireless device (solid orange circle)
- Not communicating with a wireless device (solid black circle)

#### Wired USB Connection Status

- Connected to USB host (solid green circle)
- Connecting to USB host (green circle with sunburst)
- Not connected to USB host (solid black circle)





## Step 1

Insert the host side wireless adaptor into a USB port on the PC.



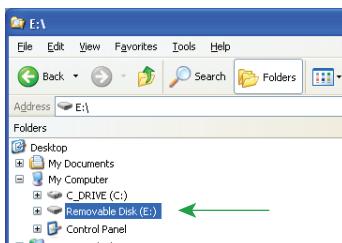
## Step 2

Using the USB cable supplied with the USB device, connect the USB device to the wireless adaptor.



## Step 3

Apply power to the wireless adaptor.



## Step 4

Confirm the connection. The device will show up and operate as if it were connected using standard wired USB.

The ADP-RDK sample kit is designed to use the Wireless USB protocol to replicate the operation of a USB cable. If this is the first time the USB device has been connected to the PC the normal operating system mass storage installation messages should appear. If the device has previously been connected it should appear as a device on the PC in the normal way.

*You are now ready to start using your USB device with standard PC applications!*

## Usage with Certified Wireless USB PCs

The adaptors come shipped as 'pre-associated.' This means they have already been made aware of each other, know they can communicate together and have exchanged security information. In addition to this, the device side wireless adaptor can be associated with up to two additional Certified Wireless USB hosts using the standards defined 'cable association' method. In order to associate a device side wireless adaptor with a new wireless host, perform the steps below.



*This procedure details cable association of new wireless hosts using the adaptor's USB Mini B port.*

### Step 1

Ensure the device side wireless adaptor is connected to power but not to a USB device.

### Step 2

Using a USB cable with a type 'A' USB plug on one end and a type 'mini B' plug on the other, connect the PC to the 'mini B' socket on the device side wireless adaptor.

### Step 3

Open the Certified Wireless USB management application on the PC.

## Step 4

In the Certified Wireless USB management application on the PC, indicate that you want to add a new device. When prompted, ensure that the ‘cable association’ method of connecting is selected.

## Step 5

Any further options provided in the wireless management application can be set as you wish.

## Step 6

Once association is complete (should take no more than 5-10 seconds), disconnect the USB cable between the PC and the device side wireless adaptor.

## Step 7

Reconnect the USB mass storage device to the device side wireless adaptor.

*You have now added a new host association!* To switch between the ‘pre-associated’ host side wireless adaptor and the wireless PC just associated, press and release the button on the top of the device side wireless adaptor. An LED on the side of the device adaptor should change to indicate which available host is now selected for use. The status of the connection to a host is indicated as follows:

- Host selected and connected
-  Host select but not connected
- Host not selected

The ADP-RDK can store up to three associated hosts. When a fourth one is added, the first one associated is overwritten (the association of the two adaptors in the sample kit is permanent and cannot be overwritten).

## Troubleshooting

The ADP-RDK sample kit is designed to work with most common USB devices which support mass storage class. Devices requiring other USB classes are not supported in the current release. The most commonly reported problem relates to trying to use the kit with devices which do not support or do not strictly implement the above class. Should this problem occur, it will be indicated by continuous flashing of the Wired USB Connection Status LED on the device side wireless adaptor.

In this case, please try another mass storage class supporting device. If problems persist, contact Artimi through the ArtimiCustomer support portal.

## Additional Notes

### **Device Compatibility**

The ADP-RDK sample kit has been tested with a number of USB hard disk drives and other USB mass storage devices.

### **Adaptor Orientation**

The ADP-RDK sample kit is intended to produce the best performance with the antenna in a vertical orientation. To assist in product design, Artimi has a variety of reference design information and can provide support in achieving the best RF performance for each particular product.



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