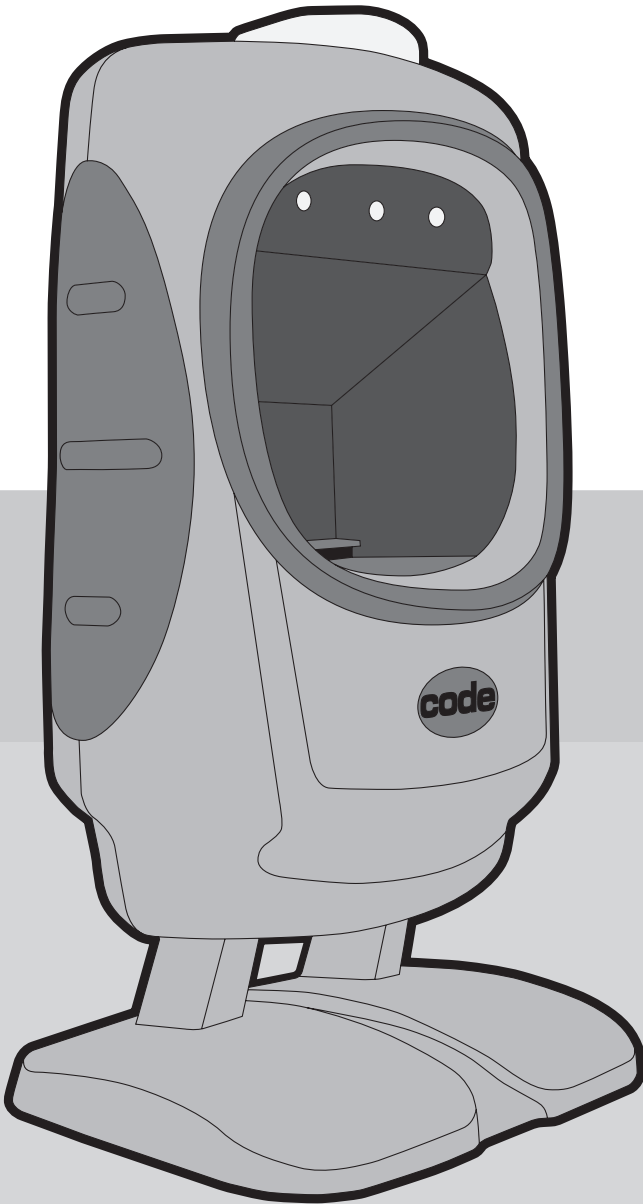


# USER MANUAL

Products Supported: CR950, CR1100, CR1500,  
CR2700, CR5000, CR5200, CR6000, CR8000, CR8200



# CORTEXJPOS™

MANUAL VERSION 03  
RELEASE DATE: JULY 2021



[codecorp.com](http://codecorp.com)



<http://bit.ly/CodeYouTube>

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Code Corporation, 434 West Ascension Way Suite 300, Murray, Utah, 84123 USA

[codecorp.com](http://codecorp.com)

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## 1.0 - Introduction

The CortexJPOS™ driver allows Code barcode readers to communicate with Windows and Linux PC applications that use the JPOS standard to communicate to peripherals.

The CortexJPOS™ driver supports USB and RS232 connections between the reader and the host computer.

This manual will cover the steps necessary to configure the Code reader for JPOS operation and to install the CortexJPOS™ service object. It will also provide guidelines for configuring your JPOS application to use the CortexJPOS™ service object and Code readers, using POSTest as an example.

## 2.0 - Hardware Requirements

Component	Requirements
Computer	PC compatible.
Hard Disk	In addition to the capacity recommended for the OS, the hard disk must have at least 10 MB space available.
Memory	A minimum of 94 MB of memory is required, and an additional 256 MB is recommended.

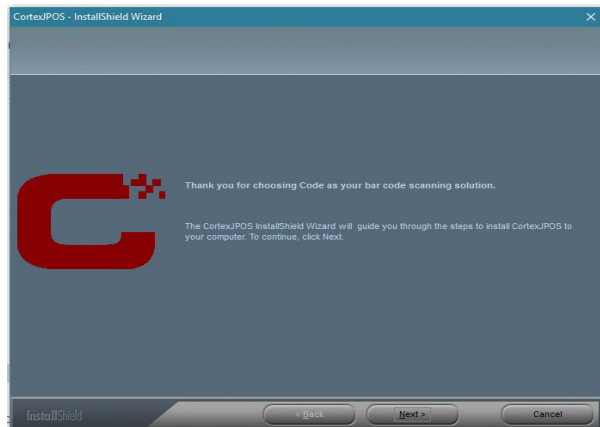
## 3.0 - Software Requirements

Component	Requirements
Operating System	Windows 8, Windows 10, or Linux
Java Runtime Engine	JRE 8.0 or above

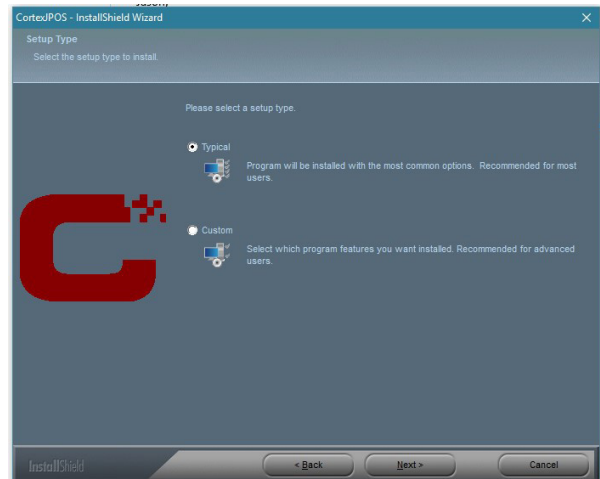
## 4.0 - Windows Installation

There are two installers depending on the Java Runtime Environment (JRE) being used: one for 32-bit environments, and one for 64-bit environments. The “x86” installer should be used if the JRE is the 32-bit runtime environment, and the “x86-64” installer should be used if the JRE is the 64-bit runtime environment. If using a 64-bit version of the operating system, but a 32-bit version of the JRE, use the “x86” version of the installer.

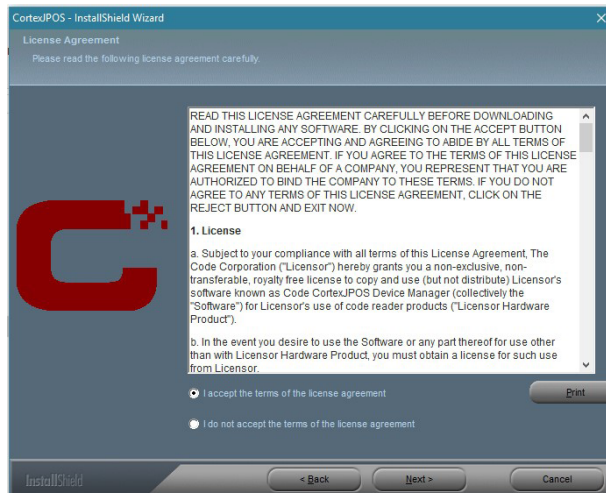
1. Download the appropriate installer for your JRE from the [codecorp.com](http://codecorp.com) website.
2. Run the executable (e.g. CortexJPOSSetup-6.0.0-Windows\_x86.exe) and press “Next” when the screen below opens.



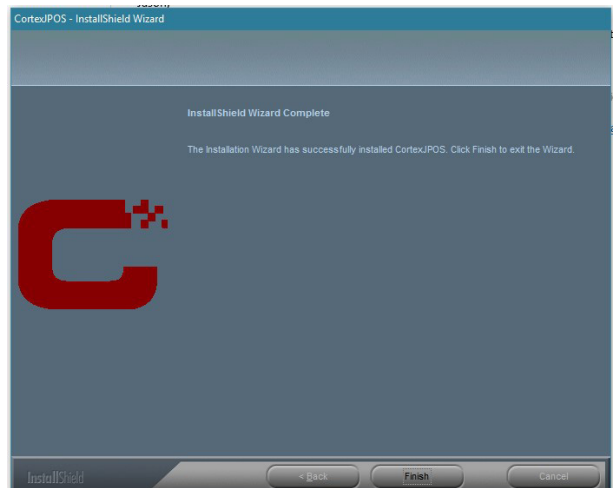
4. Choose the “Typical” option and select “Next”.



3. Accept the Terms & Conditions and select “Next”.



5. Select “Install”, then “Finish” to complete installation.



## 5.0 - Linux Installation

There are two installers depending on the Java Runtime Environment (JRE) being used: one for 32-bit environments, and one for 64-bit environments. The “x86” installer should be used if the JRE is the 32-bit runtime environment, and the “x86-64” installer should be used if the JRE is the 64-bit runtime environment. If using a 64-bit version of the operating system, but a 32-bit version of the JRE, use the “x86” version of the installer.

The Linux version of the CortexJPOS™ installer is provided as a gzipped tar file. To unzip and install CortexJPOS™, perform the following commands:

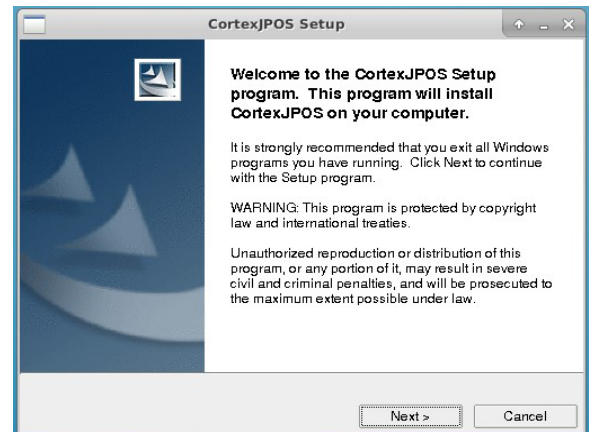
1. Enter the command “tar xzf <INSTALLER\_FILENAME>” where <INSTALLER\_FILENAME> is the name of the .tar.gz file that you received or downloaded.
2. Enter the command “cd <INSTALLER\_DIRECTORY>” where <INSTALLER\_DIRECTORY> is the directory that was created by the previous step, and has the same name as the installer, but without the “.tar.gz” at the end.
3. Right click on the .exe file (e.g. CortexJPOSSetup-6.1.2-Linux-x86\_64.exe), and Run as Administrator. The screen below will pop up asking if you wish to continue. Press “Yes”.



4. Accept the Terms & Conditions and press Next.



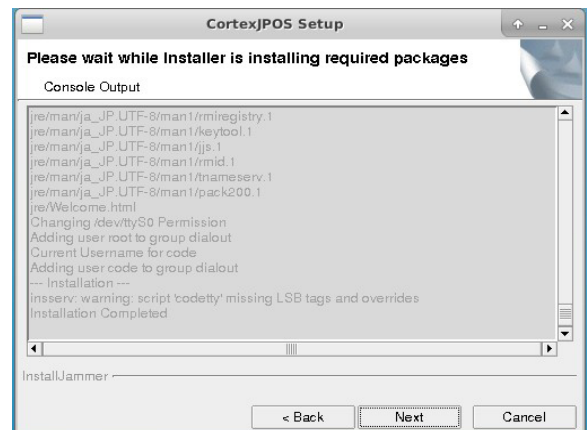
5. On the Welcome screen, press “Next”.



6. On the Setup Screen, press “Next”.

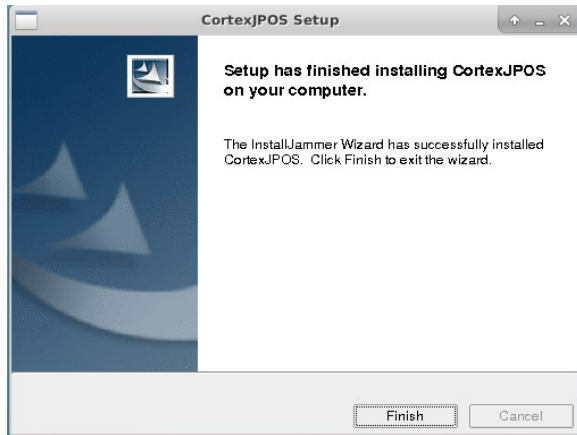


7. After all the files are installed, click “Next”.



## 5.0 - Linux Installation (continued)

8. On the final screen, click “Finish”.



## 6.0 - Configuring a Code Reader for JPOS

Code Readers can be used in either USB or RS232 mode to communicate with JPOS programs. Scan the appropriate barcode below depending on your model.

- The, CR950, CR1100, CR1500, CR5200 AND CR8200 will use codes for CR82x Readers
- The CR2700 will use the Enable AIM ID Code
- All others will use the codes for 8x Readers

**USB OPOS/JPOS  
for 82x Readers**



M20307\_02

**RS232 OPOS/JPOS  
for 82x Readers**



M20308\_02

**Enable AIM ID**



M20344\_01

**USB OPOS/JPOS  
for 8x Readers**



M10009\_01

**RS232 OPOS/JPOS  
for 8x Readers**

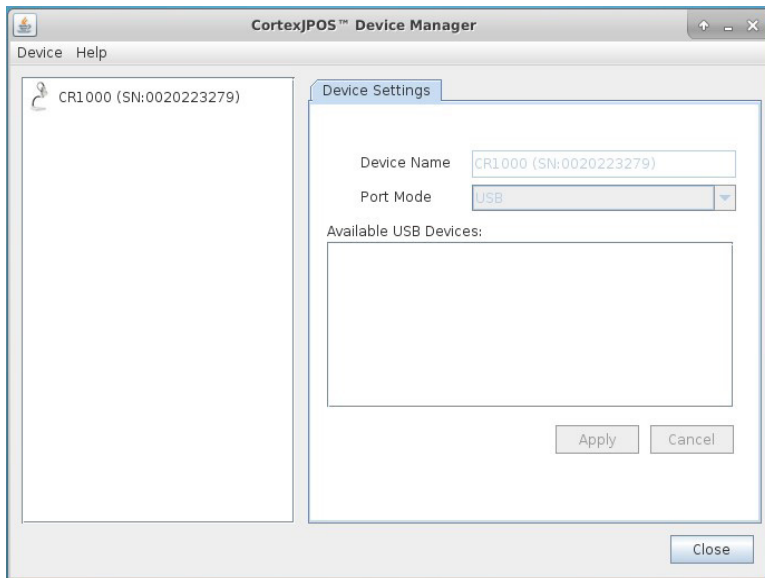


M10467\_01

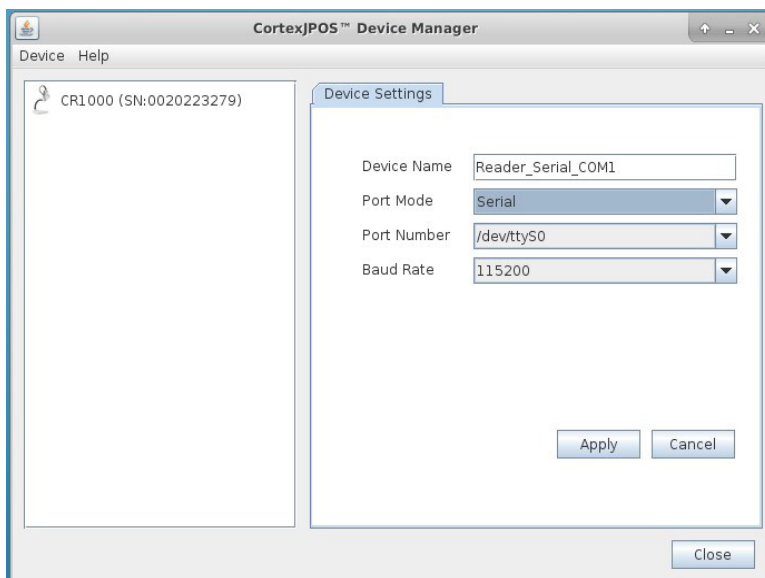
## 7.0 - Setting Up a Device on Linux

Once you have run the installation and configured your reader appropriately, you are ready to setup the barcode scanner on your system. During installation, two programs were installed: CortexJPOSDeviceManager and the CortexJPOSSampleApplication. Both of these programs can be accessed via the start menu in the “CortexJPOSApplication” folder. The CortexJPOSDeviceManager program is used for device setup. You can then test the device setup using the CortexJPOSSampleApplication.

To setup a USB device, make sure your device is plugged in, and open the CortexJPOSDeviceManager program. As long as you’ve scanned the USB configuration barcode in section 6.0, the program will automatically detect the device and ask you if you want to configure it. Click “Yes”. The barcode reader will appear in the list of available USB devices. After you click “Apply” and follow the prompts to setup the reader, it will appear in the list on the left like in this screen:



To setup a serial device, open the CortexJPOSDeviceManager program, click “Device”, and then click “Refresh”. Then select “Serial” from the “Port Mode” dropdown.

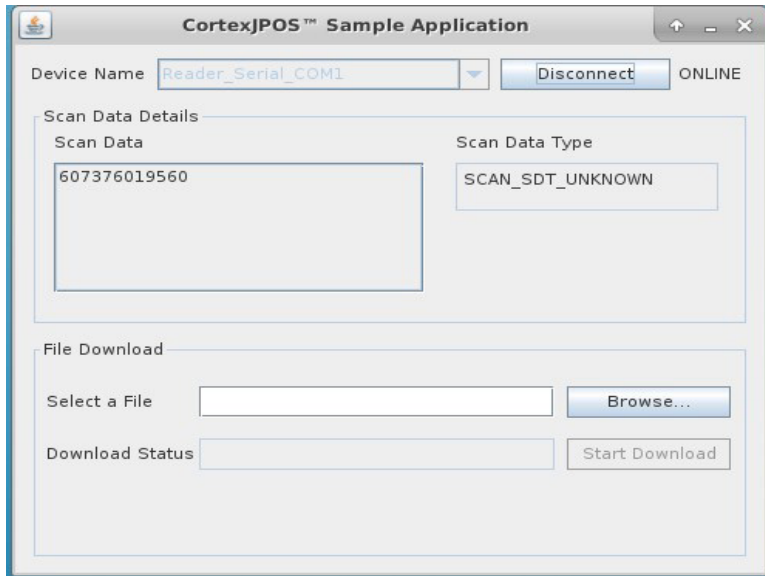


The port number should be “/dev/ttySx(8200)”, where ‘x’ is the port number, for CR8200, CR950, CR2700, CR5200 or CR1500. All other readers should use “/dev/ttySx”. Once you click “Apply”, the serial device will appear in the device list on the left.



## 8.0 - Testing a Device on Linux

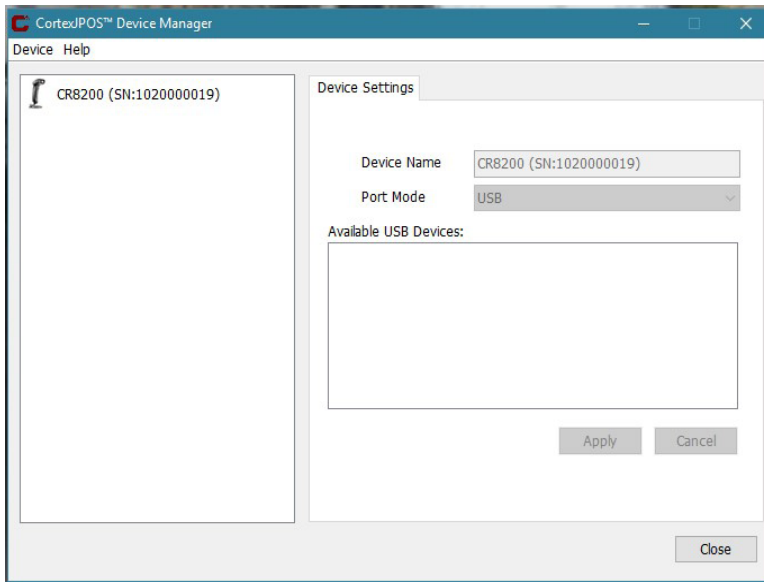
Once a device has been set up as noted in the previous section, it can be tested using the CortexJPOSSampleApplication, which can be found under the start menu in the “CortexJPOSApplication” folder. Once the program is open, select the device you are scanning with, and click the “Connect” button. Any scanned barcodes will appear in the “Scan Data” box on the left.



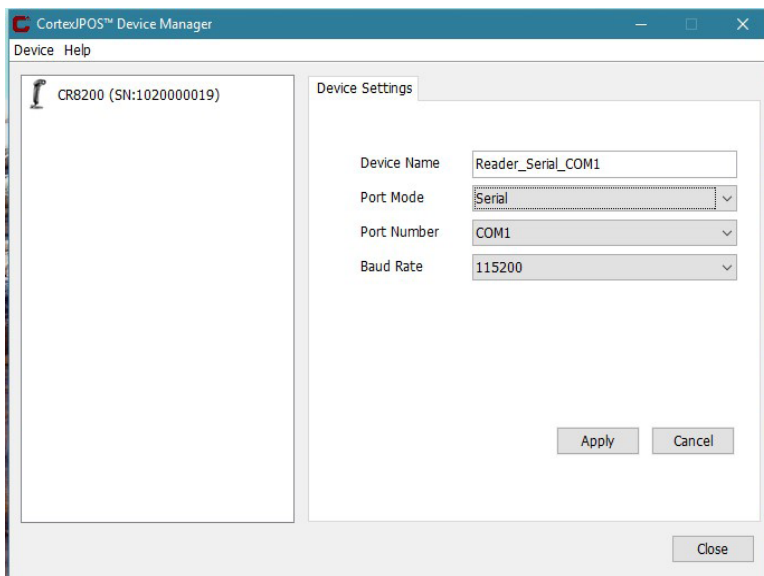
## 9.0 - Setting Up a Device on Windows

Once you have run the installation and configured your reader appropriately, you are ready to setup the barcode scanner on your system. During installation, the CortexJPOS Device Manager was installed. The Device Manager is used to setup a barcode scanning device for use with JPOS applications. It can be found in the start menu under the “CortexJPOS” folder.

To setup a USB device, make sure your device is plugged in, and open the CortexJPOS Device Manager program. As long as you’ve scanned the USB configuration barcode in section 6.0, the program will automatically detect the device and ask you if you want to configure it. Click “Yes”. The barcode reader will appear in the list of available USB devices. After you click “Apply” and follow the prompts to set up the reader, it will appear in the list on the left like in this screen:



To set up a serial device, open the CortexJPOS Device Manager program, click “Device”, and then click “Refresh”. Then select “Serial” from the “Port Mode” dropdown.



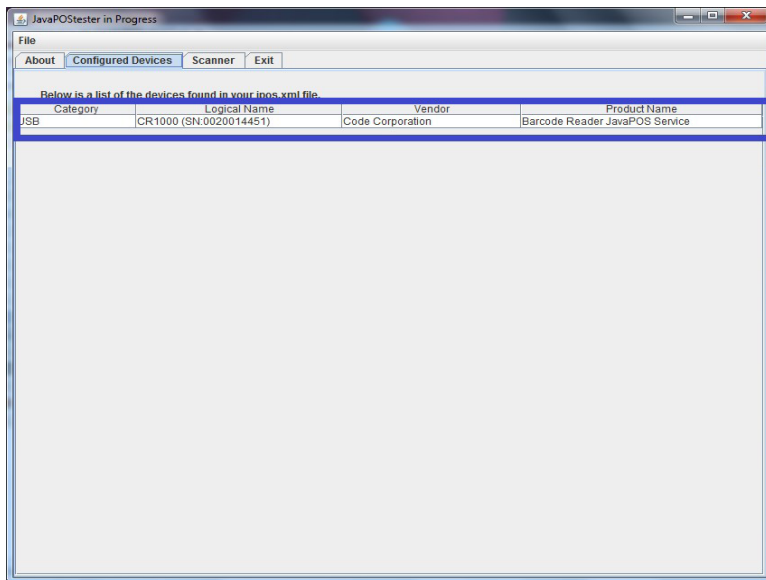
The port number should be “COM x(8200)”, where ‘x’ is the port number, for CR8200, CR950, CR5200 or CR1500. All other readers should use “COM x”. Once you click “Apply”, the serial device will appear in the device list on the left.

## 10.0 - Testing a Device on Windows

Once a device has been set up as noted in the previous section, it can be tested using the POSTest application, which must be installed separately. You can find this for download at <http://postest.sourceforge.net>. Run the POSTest installer, agree to the terms and conditions, and the files will install in the C:\CodeJPOS\_POSTest directory. After the installation finishes and before running POSTest for the first time, the following files need to be copied from the directory where the Device Manager is installed into the POSTest directory:

- jpos.xml
- CortexJPOSApplications.jar
- hidapi.dll
- CodeUtil.dll
- CodeUtil2.dll

After copying over the appropriate files, run POSTest, which can be found in the start menu under the Code JPOS POSTest folder. If you click on the “Configured Devices” tab, you can see the devices you’ve configured using the Device Manager. If no devices are listed, you need to go back to section 9.0 to set up a device.



Now click on the “Scanner” tab. Select the device you would like to test from the “Logical name” dropdown. You can now test the various JPOS functions on that device using the buttons right below the dropdown. First, a device must be opened, then claimed. To see the barcode data, the “Data event enabled”, “Device enabled”, and “Decode data” checkboxes must all be checked. Once you are done testing, you must release a device, then close the port.

