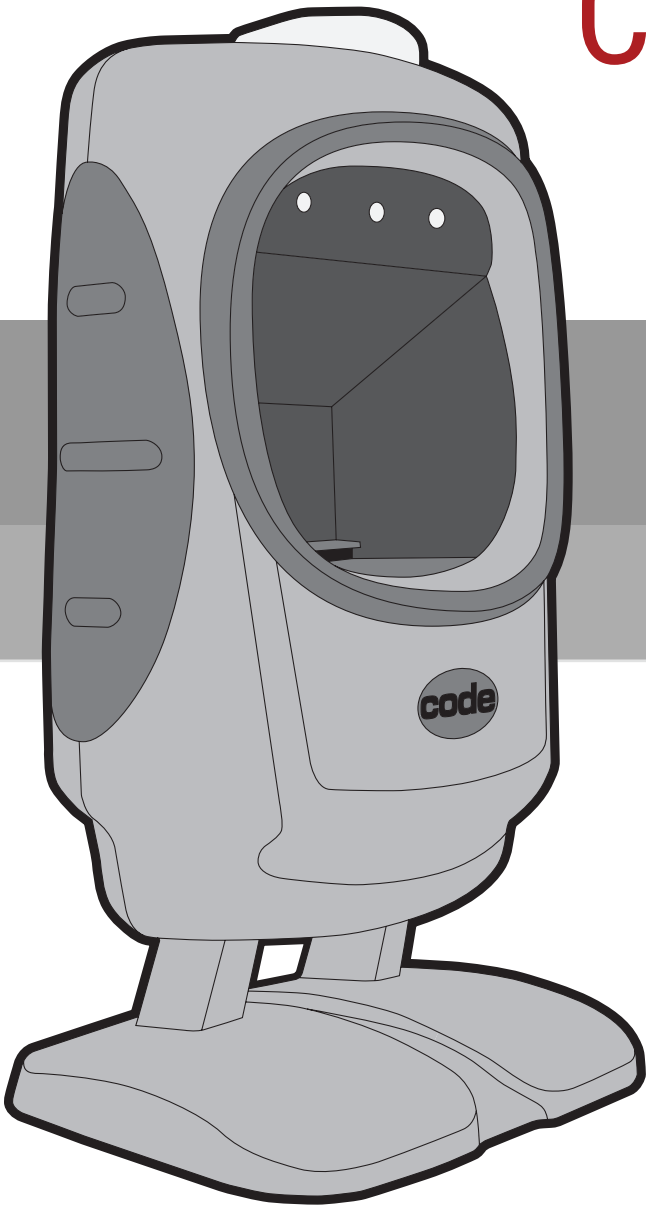


code[®] **CORTEXOPOS™**



USER MANUAL **NORTH AMERICA, EMEA, APAC**

MANUAL VERSION 05
RELEASE DATE: APR 2021

Products Supported:
CR950, CR1000, CR1100,
CR1400, CR1500, CR2700,
CR5000, CR5200, CR6000,
CR8000, CR8200

(Limited Support for CR2600)

codecorp.com

CortexOPOS™ User Manual

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1.0 - Introduction

The CortexOPOS™ service object allows Code barcode readers to interface with Windows PC applications that use the OPOS standard to communicate with peripherals. By default, the driver installation will create an OPOS device that will work for all USB-connected Code barcode readers. The CortexOPOS installer will also install the CortexOPOS™ Device Manager. The Device Manager gives users more advanced options, which include configuration for RS232-connected devices—including modems and multiple devices connected at the same time.

The CortexOPOS™ service object supports USB and RS232 connections between the reader and the host computer. RS232 connection between the modem and host computer is also supported. Bluetooth connections are not supported at this time.

2.0 - Hardware Requirements

Component	Requirements
Computer	PC/AT 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	PC/AT compatible

4.0 - CortexOPOS™ USB Device Types

There are two different ways to set up a Code USB reader for OPOS:

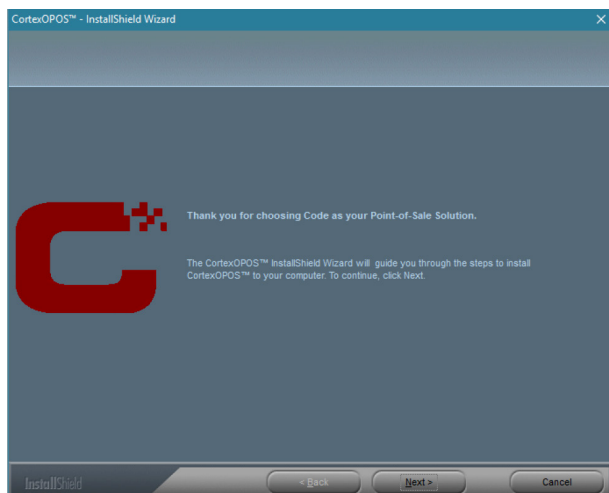
Type	Description
Generic CortexOPOS™ device (default)	This is an OPOS-registered device that is not tied to any particular Code barcode reader. It will communicate with any connected Code barcode reader (CR1000, CR5000, etc.)
Hardware-specific CortexOPOS™ device	This is an OPOS-registered device that is tied to a single physical Code barcode reader serial number. CAUTION: <i>If this type of device is configured using the CortexOPOS™ Device Manager, and the reader is replaced (even if it is with the same reader model—but not the exact same physical reader), the OPOS system will not be able to communicate with the reader.</i>

Note: *The concept of generic vs. hardware-specific devices is only relevant to USB-connected devices. When an RS232 CortexOPOS™ device is created, it will communicate with any Code barcode reader that is connected to that RS232 port—as long as the reader is correctly configured.*

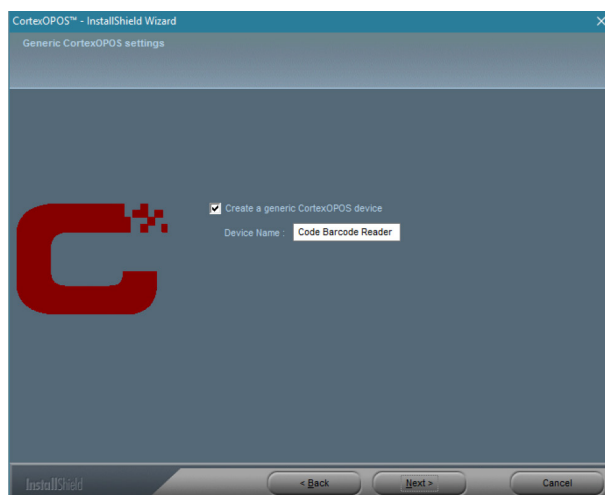
5.0 - Installation

5.1 - Download the **OPOSInstaller.zip** file available from codecorp.com/downloads.

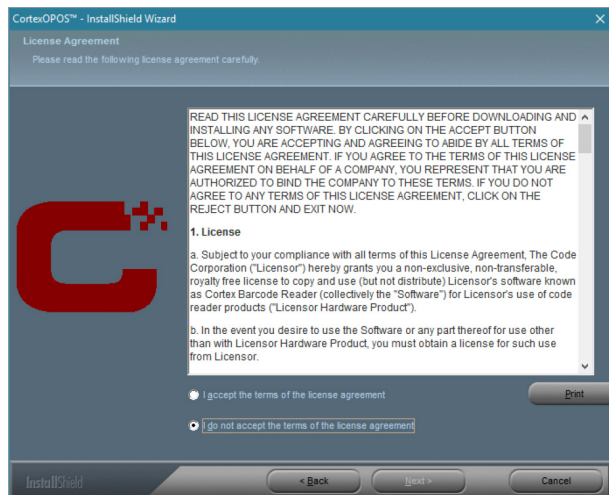
5.2 - Run the **CortexOPOSSetup** executable, and press **Next** when the screen below opens.



the box to skip the device creation step (device will need to be created later in Device Manager). Select the desired options and click **Next**. (**Note:** If a generic CortexOPOS™ device has been created previously, this screen will not be shown.)

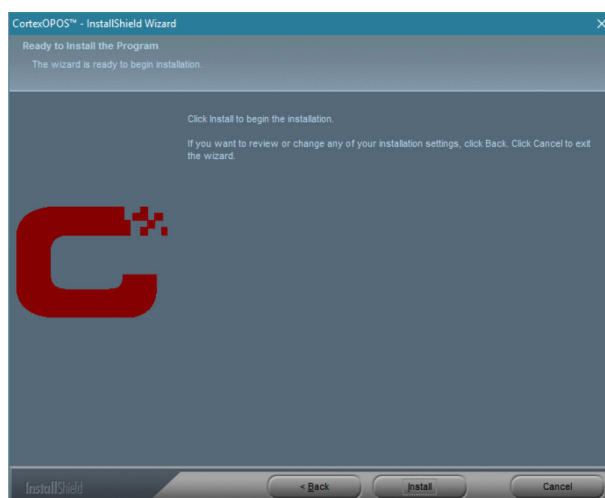


5.3 - Accept the **Terms & Conditions** and select **Next**.



5.4 - You can specify a generic CortexOPOS™ device be created during installation. Keep the checkbox checked if you want the device created and designate a device name in the text box. Uncheck

5.5 - Select **Install**, then **Finish** to complete the installation process.



At this point, the CortexOPOS™ service object is installed. Prior to using a Code barcode reader with the OPOS software, it must be configured for OPOS operation (see Section 6 or 7).

If a generic device was created as part of the installation, the OPOS software application should be able to connect to a properly configured device. If a generic device was not created, then the CortexOPOS™ Device Manager application must be used to configure a Code device for use with OPOS.

6.0 - Configuring a Reader for USB Communication

Scan the following barcode to configure the reader for OPOS mode using USB communication.

USB OPOS/JPOS
Mode for
CR8x Readers*



M10009_01

USB OPOS/JPOS
Mode for
CR82xx Readers*



M20307_02

*Use M10009_01 for CR1000, CR1400, CR5000, and CR8000. Use M20307_02 for CR8200, CR1500, CR1100, CR5200, and CR950.

To restore the original configuration, scan the **Reset to USB Factory Defaults** barcode from the online configuration guide at codecorp.com/support/config-guides.

7.0 - Configuring a Reader for RS232 Communication

Scan the following barcode to configure the reader for OPOS mode using RS232 communication.

RS232 OPOS/JPOS
Mode for
CR8x Readers*



M10467_01

RS232 OPOS/JPOS
Mode for
CR82xx Readers*



M20308_02

**Use M10467_01 for CR1000, CR1400, CR5000, and CR8000. Use M20308_02 for CR8200, CR1500, CR1100, CR5200 and CR950.

To restore the original configuration, scan the **Reset to RS232 Factory Defaults** barcode from the online configuration guide at codecorp.com/support/config-guides.

8.0 - Configuring a CR2700 with CRA-A271 Bluetooth Inductive Charging Station

To configure a CR2700 for use with CortexOPOS™, first connect the CR2700 to the Bluetooth Inductive Charging Station by scanning the **Quick Connect Code** located on the front of the Bluetooth Inductive Charging Station. Then scan the following barcode.



M20344_01

To restore the original configuration, scan the **Reset Bluetooth reader to factory defaults M20390** barcode from the online configuration guide at codecorp.com/support/config-guides.

9.0 - CortexOPOS™ Device Manager

The CortexOPOS™ Device Manager provides options for more advanced configurations. If only one Code barcode reader will be connected to the host computer, and it will be connected using USB, then the default configuration is all that is necessary. The CortexOPOS™ Device Manager permits configuration of RS232 devices, multiple generic devices, or hardware-specific devices (one or more). All USB devices must either be generic or hardware-specific; types cannot be mixed.

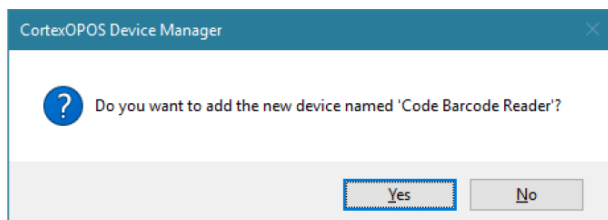
Note: If you have more than one USB device enumerated with the host, there is no guarantee which device will be connected. The driver will connect to the first device returned by the operating system while enumerating USB devices.

10.0 - Adding a USB Reader to the CortexOPOS Device Manager

10.1 - Open the **CortexOPOS™ Device Manager**.

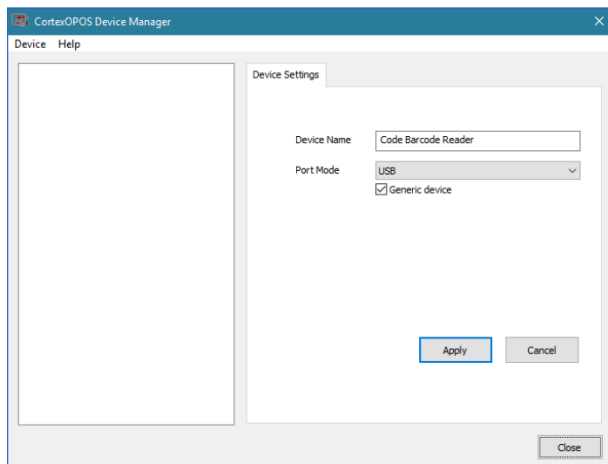
10.2 - Plug a reader into the computer USB port.

10.3 - The **Device Manager** will detect a connected barcode reader and display the following prompts—select **Yes** to continue.

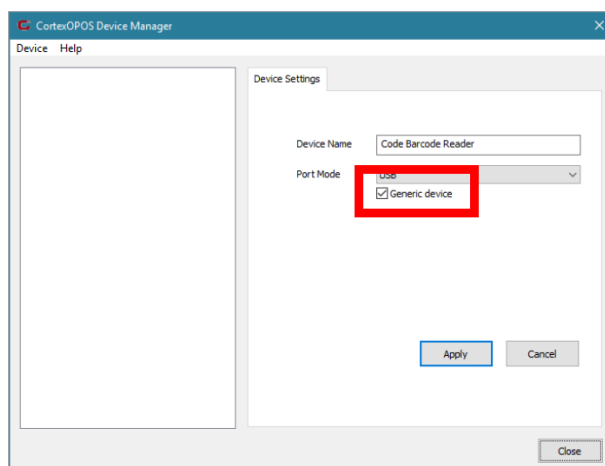


10.4 - Devices can be set up as generic or specific.

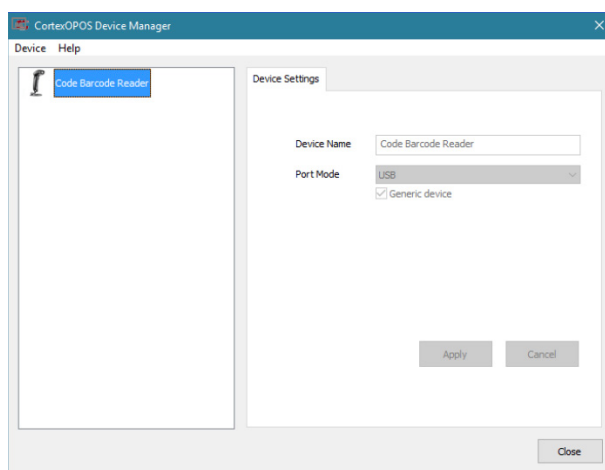
a. - Generic: Keep the **Generic device** checkbox checked. To change the name of the device, modify the text in the **Device Name** field. Press **Finish** to save changes. A prompt box will appear asking the user to confirm the changes—press **Yes** to confirm.



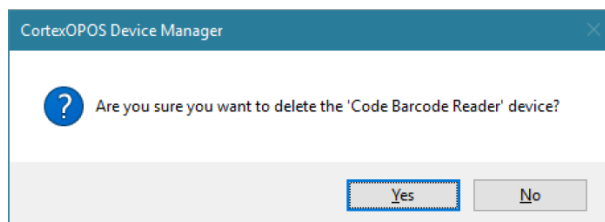
b. - Specific: Uncheck the **Generic device** checkbox. A list of connected devices will appear. Highlight the device you want to add and click **Apply**. A prompt box will ask you to confirm—press **Yes**.



10.5 - Once the reader has been added to the CortexOPOS™ Device Manager, the reader name will appear in the **Device** list on the left.



10.6 - To delete a device, right-click on a device name and select **Delete Device**. A prompt box will appear asking the user to confirm the deletion—press **Yes** to confirm.

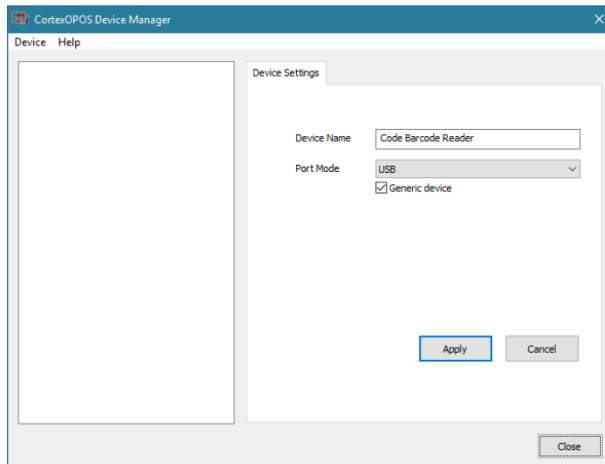


11.0 - Adding an RS232 Reader (or Modem) to the CortexOPOS Device Manager

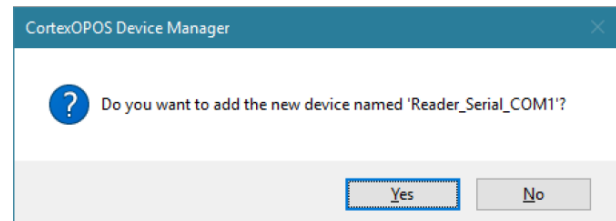
11.1 - Open the **CortexOPOS™ Device Manager**.

11.2 - Plug the reader, or CodeXML® modem, into the computer serial port. (Scan the QuickConnect Code™ on the modem.)

11.3 - Select **Refresh** under **Device**.



11.5 - Select the desired baud rate. Modify the **Device Name** as desired. Press **Finish** to save changes. A prompt box will appear asking the user to confirm the changes—press **Yes** to confirm.

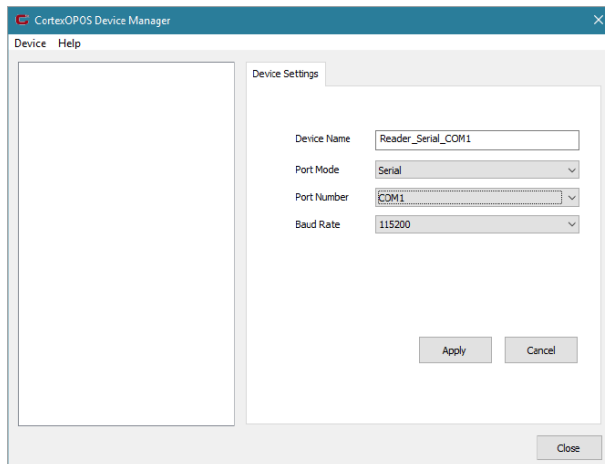


Note: All RS232 CortexOPOS™ devices behave as generic devices, and are not tied to any particular reader hardware or serial number.

11.4 - Select the appropriate port from the **Port Mode** list options.

Note: If the reader is an 8x based product use **COM1**, **COM2**, etc. for the CR1000, CR1400, CR5000, and the CR8000.

If the reader is an 82x based product reader, select **COM1 (8200)**, **COM2 (8200)**, etc. for the CR950, CR1100, CR1500, CR5200, and the CR8200.

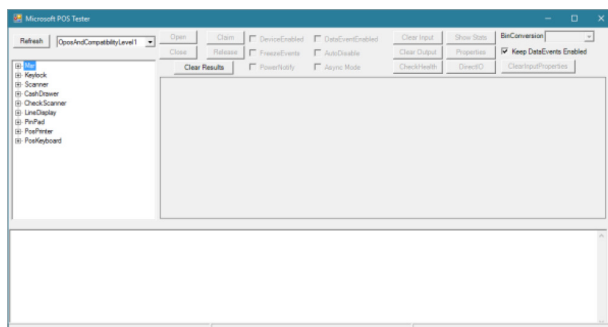


12.0 - Using the Microsoft POS for .NET Sample Application

Microsoft provides the **Microsoft Point of Service for .NET** or **Microsoft POS for .NET** library that includes a sample application that can be used with OPOS drivers—including the CortexOPOS™ driver for Code barcode readers—to test communication with OPOS devices. This software can be downloaded from Microsoft at microsoft.com/en-us/download.

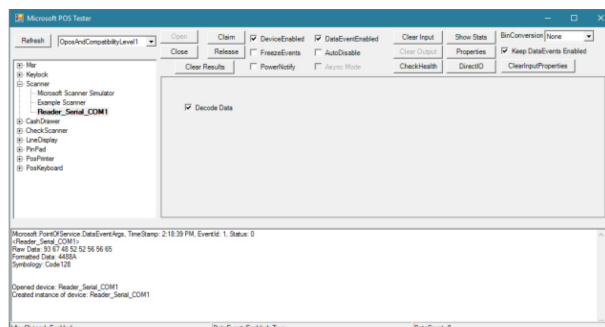
12.1 - Install the **Microsoft POS for .NET** software.

12.2 - Open the **TestApp.exe** sample application (close any other OPOS applications, including CortexOPOS™ Device Manager, and any other Code applications).

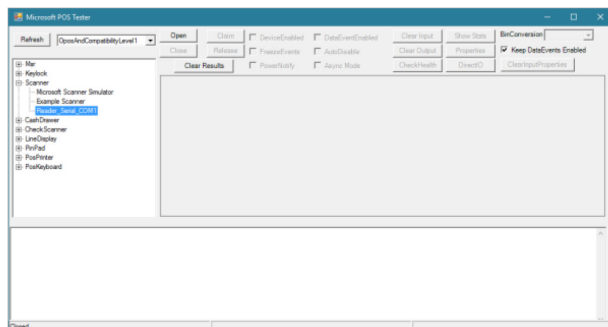


12.4 - Press **Open**, then **Claim** to connect to the reader.

12.5 - Check the **DeviceEnabled**, the **DataEventEnabled**, and the **Decode Data** checkboxes. Scan a barcode and see the results in the bottom window.



12.3 - Make sure you have a properly configured Code reader connected to the computer. Expand the **Scanner** block in the left pane, and select the device name specified for the connected Code Reader (**Code Barcode Reader** by default).



13.0 - Optional Feature Support

Feature/Capability	Support Statement
Power reporting	Supported as PR_STANDARD
Compare firmware	Not supported
Statistics reporting	Not supported
Update firmware	Not supported
Update statistics	Not supported
Direct IO	Not supported