



# Gimmel Physical

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## Version History

Version	Approved By	Effective Date	Product Version	Description of Change
1	Terry Butler	02/28/2022	3.11	Created for Gimmel Version 3.11
2	Marta Farensbach	12/1/2022	3.12	Minor updates for Gimmel Physical 3.12



## Installation Settings

Gimmel Physical RFIDConnect is a Windows system tray application that allows users to interact with RFID tagged items to perform check in/check out operations.

### Setting Up Gimmel Physical RFIDConnect

To get started with RFIDConnect, you need:

1. RFID Reader Hostname/IP Address
2. Gimmel Physical WebServices URL

#### Initial Set Up

- Set the WebService URL:
  1. Navigate to the RFIDConnect installation directory.
  2. Open Gimmel PhysicalRFIDConnect.exe.config in a text editor.
  3. Find the setting tag where the name attribute equals "WebserviceURL". EX:

```
<setting name="WebserviceURL" serializeAs="String">  
<value></value>  
</setting>
```
  4. Set the Value tag to the Gimmel Physical WebService URL.
  5. Save the file.
- Set and configure the RFID Reader and Antenna:
  1. Start the application.
  2. Right click on the RFIDConnect Icon in the system tray.
  3. Click on Options
  4. Enter the Hostname/IP Address in the 'Hostname for RF Pad' text box in the RFID Pad Settings section.
  5. Click Add.
  6. Select the RFID Pad from the dropdown menu in the Pad Configuration section.
  7. Check the appropriate boxes for each antenna attached to the reader and set desired strength.
  8. Click Ok

**Options** [Close]

Gimmel Physical barcode for the location of this computer.

Location Type

Location Description

Start this program when Windows starts

Disable message window

Show barcodes when transferring

**RFID Pad Settings**

Hostname for RF Pad

**Pad Configuration**

Beep for every tag

**Enable RF Pad**

Pad 1  
RF Pad Strength 0  Low High

Pad 2  
RF Pad Strength 0  Low High

Pad 3  
RF Pad Strength 0  Low High

Pad 4  
RF Pad Strength 0  Low High

**Item Transfer Settings**

Make item a transfer destination

**Location Options**

Check In Only

Check Out Only

Check In/Out Location Timeout (sec)

**Item Read Settings**

Ignore Reads of Item

**Barcode Scanner Settings**

This computer has a barcode scanner

COM Port for Barcode Scanner

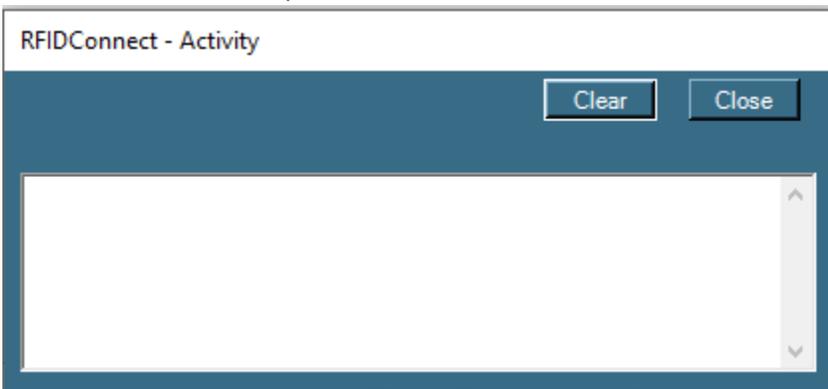
Number of seconds before restoring computer location barcode after user barcode was scanned

## Configure Check-In/Out Operations:

RFIDConnect supports three Check In/Out modes.

1. Check-In Only
  - Check in items by passing the tagged items over the antenna. The tagged item will be checked into the barcode to which the reader is set.
2. Check-Out Only
  - First, check out items by passing the tag for the check-out destination. Then pass the tagged item over the antenna.
3. Check-In/Out
  - This mode supports both check in and check out, with a timeout setting for the transfer destination read.
  - Example: The reader detects a transfer destination, for the next 10 seconds any items it reads will be checked out to that destination. After 10 seconds it reverts to check in mode.

When detected, read tags will be shown in the Show Activity window. This window will open automatically unless disabled in the Options menu.

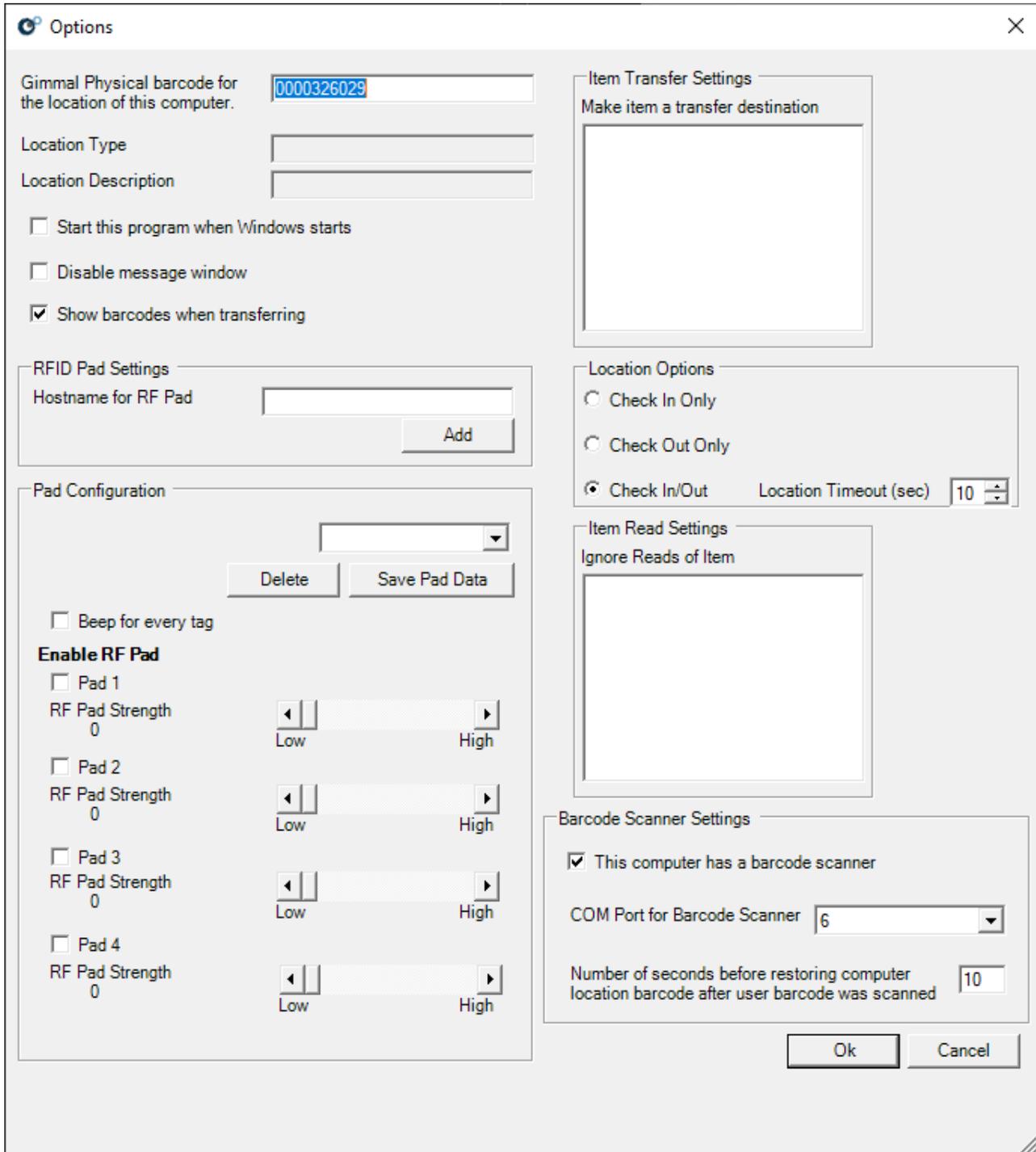


Using RFIDConnect for check-in/out requires users to define the following settings:

1. Set the Location that the RFID Reader represents: (Ex. File room, Warehouse)
  1. Start the RFIDConnect application.
  2. Right click on the RFIDConnect Icon in the system tray, click on Options
  3. Enter the Gimmel Physical barcode for the item that the reader represents in the 'Gimmel Physical barcode for the location of this computer' textbox.
  4. Click Ok.
2. Set which Tabs that the Reader will recognize as transfer destinations:
  1. Start the RFIDConnect application.
  2. Right click on the RFIDConnect Icon in the system tray, click on Options
  3. Under Item Transfer Settings check the boxes for the tabs that should be recognized as a transfer destination.
  4. Click Ok.

3. Set which Tabs to ignore reads:

1. Start the RFIDConnect application.
2. Right click on the RFIDConnect Icon in the system tray, click on Options
3. Under Ignore Reads of Item, check the boxes for the tabs that should be ignored if read.
4. Click Ok.



**Options**

Gimmel Physical barcode for the location of this computer.

Location Type

Location Description

Start this program when Windows starts

Disable message window

Show barcodes when transferring

**RFID Pad Settings**

Hostname for RF Pad

**Pad Configuration**

Beep for every tag

**Enable RF Pad**

Pad 1  
RF Pad Strength

Pad 2  
RF Pad Strength

Pad 3  
RF Pad Strength

Pad 4  
RF Pad Strength

**Item Transfer Settings**

Make item a transfer destination

**Location Options**

Check In Only

Check Out Only

Check In/Out Location Timeout (sec)

**Item Read Settings**

Ignore Reads of Item

**Barcode Scanner Settings**

This computer has a barcode scanner

COM Port for Barcode Scanner

Number of seconds before restoring computer location barcode after user barcode was scanned

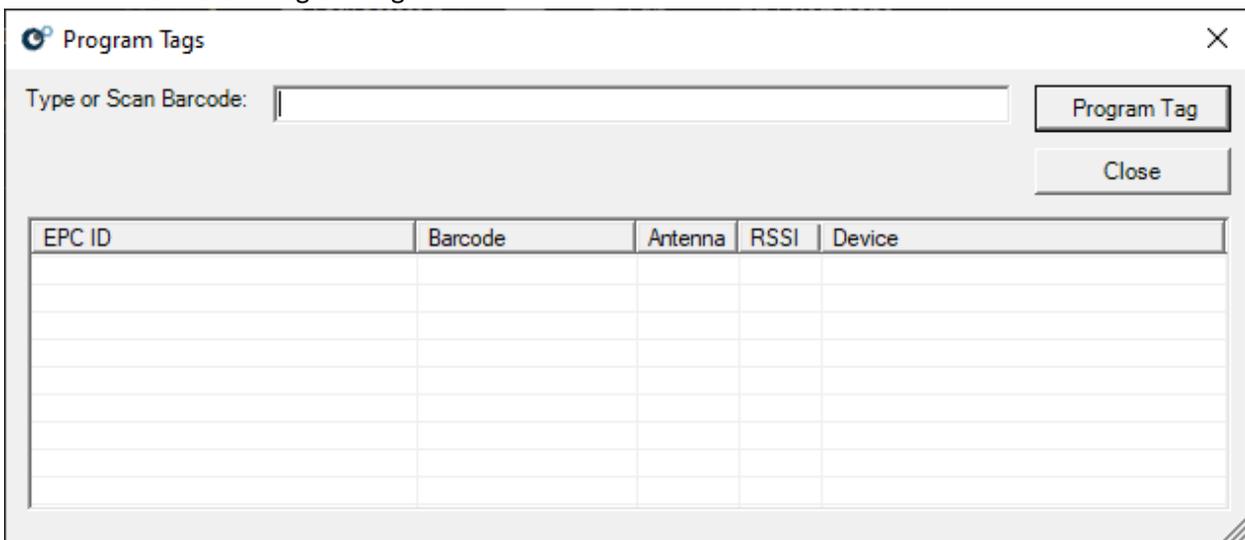
## Additional Options

- Barcode Scanner – If using RFIDConnect at a workstation that also has a Tethered Scanner, you can use the Tethered Scanner to read destination barcodes.
  1. Start the RFIDConnect application.
  2. Right click on the RFIDConnect Icon in the system tray, click on Options.
  3. Check 'This computer has a barcode scanner' checkbox.
  4. Select the COM port that the tethered scanner is using from the 'COM Port for Barcode Scanner' drop down.
  5. Click Ok



## Programing Tags

- RFIDConnect can also reprogram RFID tags:
  1. Start the RFIDConnect application.
  2. Right click on the RFIDConnect Icon in the system tray.
  3. Click on Program Tags.
  4. Scan the tag to reprogram.
  5. Type in the new barcode.
  6. Click Program Tag.





## Supported Hardware

RFIDConnect supports the Zebra FX7500 RFID Reader

Physical Characteristics	
<b>Dimensions</b>	7.7 in. L x 5.9 in. W x 1.7 in. D (19.56 cm L x 14.99 cm W x 4.32 cm D)
<b>Weight</b>	1.9 lbs ± 0.1 lbs (0.86 kg ± 0.05 kg)
<b>Housing Material</b>	Die-cast aluminum, sheet metal and plastic
<b>Visual Status Indicators</b>	Multicolor LEDs: Power, Activity, Status and Applications
<b>Mounting</b>	Keyhole and standard VESA (75mm x 75mm)
Environmental	
<b>Operating Temp.</b>	-4° to +131° F/-20° to +55° C
<b>Storage Temp.</b>	-40° to +158° F/-40° to +70° C
<b>Humidity</b>	5-95% non-condensing
<b>Shock/Vibration</b>	MIL-STD-810G
Regulatory Compliance	
<b>Safety</b>	UL 60950-01, UL 2043, IEC 60950-1, EN 60950-1
<b>RF/EMI/EMC</b>	FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3
<b>SAR/MPE</b>	FCC 47CFR2:OET Bulletin 65; EN 50364
<b>Other</b>	ROHS, WEEE
Connectivity	
<b>Communications</b>	10/100 BaseT Ethernet (RJ45) w/ POE support; USB Client (USB Type B), USB Host Port (Type A)
<b>General Purpose I/O</b>	2 inputs, 3 outputs, optically isolated (Terminal Block)
<b>Power Supply</b>	POE, POE+ or +24V DC (UL Approved) 12V-48VDC operation can be supported
<b>Antenna Ports</b>	FX 7500-2: 2 mono-static ports (Reverse Polarity TNC) FX 7500-4: 4 mono-static ports (Reverse Polarity TNC)
Hardware, OS and Firmware Management	
<b>Processor</b>	Texas Instruments AM3505 (600 Mhz)
<b>Memory</b>	Flash 512 MB; DRAM 256 MB
<b>Operating System</b>	Linux
<b>Firmware Upgrade</b>	Web-based and remote firmware upgrade capabilities
<b>Management Protocols</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
<b>Network Services</b>	DHCP, HTTPS, FTPS, SFPT, SSH, HTTP, FTP, SNMP and NTP
<b>Network Stack</b>	IPv4 and IPv6
<b>Security</b>	Transport Layer Security Ver 1.2, FIPS-140
<b>Air Protocols</b>	EPCglobal UHF Class 1 Gen2, ISO 18000-6C
<b>Frequency (UHF Band)</b>	Global Reader: 902 MHz – 928 MHz (Maximum, supports countries that use a part of this band), 865 MHz – 868 MHz US (only) Reader: 902 MHz – 928 MHz
<b>Transmit Power Output</b>	10 dBm to +31.5 dBm (POE+, 12V ~ 48V External DC, Universal 24V DC Power Supply); +10 dBm to +30.0 dBm (POE)
<b>Max. Receive Sensitivity</b>	-82 dBm
<b>IP addressing</b>	Static and Dynamic
<b>Host Interface Protocol</b>	LLRP
<b>API Support</b>	Host Applications – .NET, C and Java EMDK; Embedded Applications – C & Java SDK
<b>Warranty</b>	The FX7500-2 and FX7500-4 are warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.