
TINYOM / HELYOMBT

UTILITIES

USER GUIDE



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Presentation

The Tinyom and the HelyomBT are Bluetooth laser scanner, the Tinyom have the distinctive feature of being hand free. They communicate with any device equipped with a Bluetooth module.

The Tinyom and the HelyomBT work in the same manner except for the triggering. In the following documentation, TXcom reader means that the feature applies for both units.

Only SPP profile (Serial Port Profile) is supported. This profile allows you to establish a serial link between two Bluetooth devices.

The Bluetooth device must be a PC (BALADYOM,), a tablet PC, a PDA (PREMIOM,), a printer.

Depending on the device Operating System, TXcom reader will operate in master mode or in slave mode.



Tinyom



HelyomBT

TinyomSet software is a utility to set up and upgrade the Tinyom, and HelyomSet the equivalent for the HelyomBT. ComClavXP, ComClavCE software are utilities compatible for both units.

TinyomSet and HelyomSet are programming tools of the Tinyom and the HelyomBT and also tools to create initialization files which will be used by Conclav software.

ComClavXP and ComClavCE are keyboard emulation which also make it possible to initialize TXcom reader.

Using TXcom reader

Pairing

To pair TXcom reader to a Bluetooth device

In master mode

Read the bar code label containing the Bluetooth Device Address of the remote device with the TXcom reader.

Label Format

code 128

BDA Address {FNC3}aabbccddeeff{FNC3}

Where

aa hexadecimal value of the first byte of the BDA address

bb hexadecimal value of the second byte of the BDA address

...

ff hexadecimal value of the last byte of the BDA address

When the TXcom reader is put on the charger, it switches to slave mode.

You need to pair it before using it.



In slave mode

Read the bar code hereafter with the TXcom reader and activate the Bluetooth device discovery from the remote device to find the TXcom reader and connect it to the Bluetooth device.



Slave Mode

The Tinyom BDA address is located under the Tinyom, near the fastener.

The HelyomBT BDA address is located behind the HelyomBT laser window.

Creating a SPP connection

Install on your PC a Bluetooth Software, before plug-in Bluetooth device.

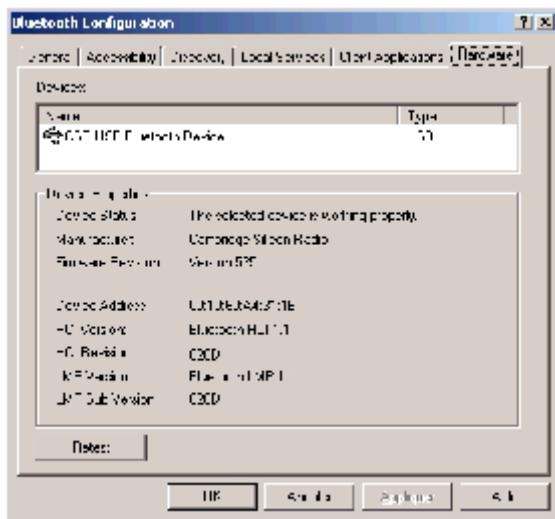
When the installation is completed, proceed as follows:

Master mode

1. Check your Bluetooth device address

Start / Settings / Control Panel / Bluetooth Configuration / Hardware Tab





2. Print a bar code containing the BDA address of the device.
See Label format on page 6 and see BDAPrint software on page 50
3. In Bluetooth properties, uncheck Secure Connection

Start / Settings / Control Panel / Bluetooth Configuration / Client application / Properties button



4. Scan the BDA label with TXcom reader.

Slave mode

1. Open the Bluetooth serial port.
2. Search for Bluetooth device.

Start / Programs / My Bluetooth Places / Bluetooth Menu / Search for device Option



3. Connect the Bluetooth device to TXcom reader.

Starting / Turning off

Starting

For the Tinyom, press lightly on the touch sensor during one second.

For the HelyomBT, press the trigger button during 1 second.

Turn off

The TXcom reader turns off:

- Automatically after a configurable delay without activity, this delay is set to 1 hour by default,
- By a long touch of roughly 2 seconds on the sensor when the long touch triggering mode is set to ON/OFF (See Trigger setting on page 21),
- For the Tinyom, by a long touch greater than 7 seconds and after that the 3 LED green, red, blue flash briefly.

Operating

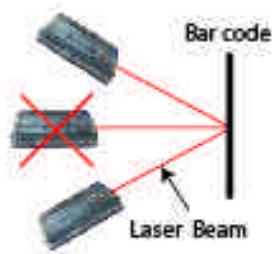
The laser reading is triggered by the activation of the touch sensor or the motion sensor for the Tinyom, by the trigger button for the HelyomBT or by radio for both.

Read could be one-shot mode or burst mode.

1. Start the laser scanner.
2. Aim the laser window on the bar code label to read.

Hold the laser scanner at a slight angle to the bar code, other than perpendicular.





3. Start scanning by one of the following modes:

One shot mode

Default mode.

- By the touch sensor or the trigger button



or

- By the motion sensor



This one detects a preset movement (wrist in stable position, then movement from left to right or vice versa, then return in stable position, then the laser beam starts).

In this mode, once the beam is on, it remains on without any user action until that the TXcom reader reads a bar code. To make the next read, it is necessary to start the laser once again.

Hold mode

Default mode.

By a long press until a bar code read.

In this mode, to keep the beam on, the user should press the touch sensor or the button until that the TXcom reader reads a bar code. To make the next read, it is necessary to start the laser once again.

Burst mode

Default mode.

By a long press of roughly one second on the touch sensor or the trigger button.

In this mode, once the beam is on, it remains on without any user action until that the TXcom reader reads a bar code and starts automatically the beam for the next read after a configurable delay.

Charging the Battery

The battery must be charged between -20°C and +45°C.

Please refer to the Quick Guide provided with the reader.

Installing the Hand strap (TINYOM)

Please refer to the Quick Guide provided with the reader.

The utilities

On the CDROM ship with the TXcom reader, you can find the ParamXP Setup for Windows XP which installs the following utilities:

TinyomSet HelyomSet

This software is used to set up and upgrade the firmware of respectively the Tinyom and the HelyomBT.



ComclavXP

This software is used to send bar codes read in keyboard emulation.

BDAprint

This software is used to print the pairing label of the TXcom reader.

TinyomSet HelyomSet Software

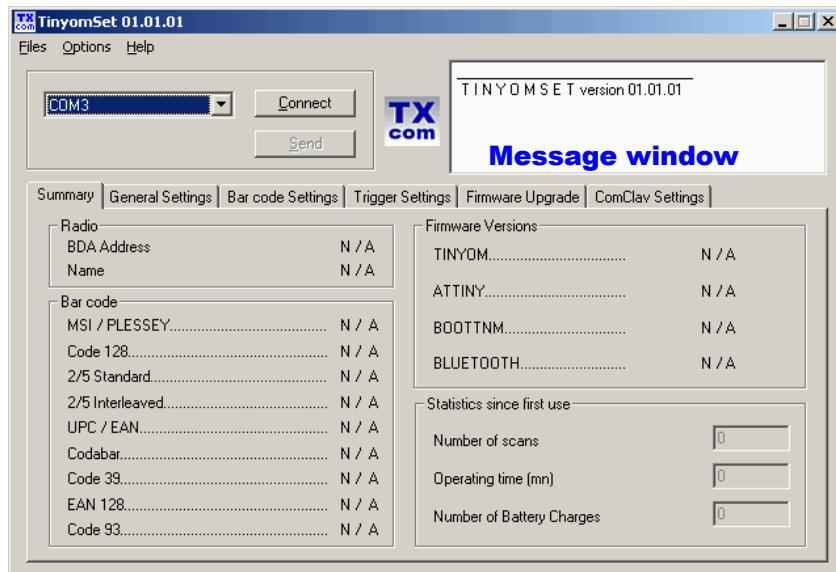
TinyomSet and HelyomSet software allow modifying parameters and upgrading the firmware of respectively the Tinyom and the HelyomBT.

Installation

Install ParamXP Setup on your PC under Windows XP.



Description



In the upper part of the screen, you will find:

- The Menu bar
- Message window, where messages are displayed
- Virtual port used by the Bluetooth connection
- *Connect / Disconnect* button to establish the connection from the Bluetooth device to the TXcom reader
- *Send* button to send edited data to the TXcom reader.

On the lower part of the screen, you will find different tabs:

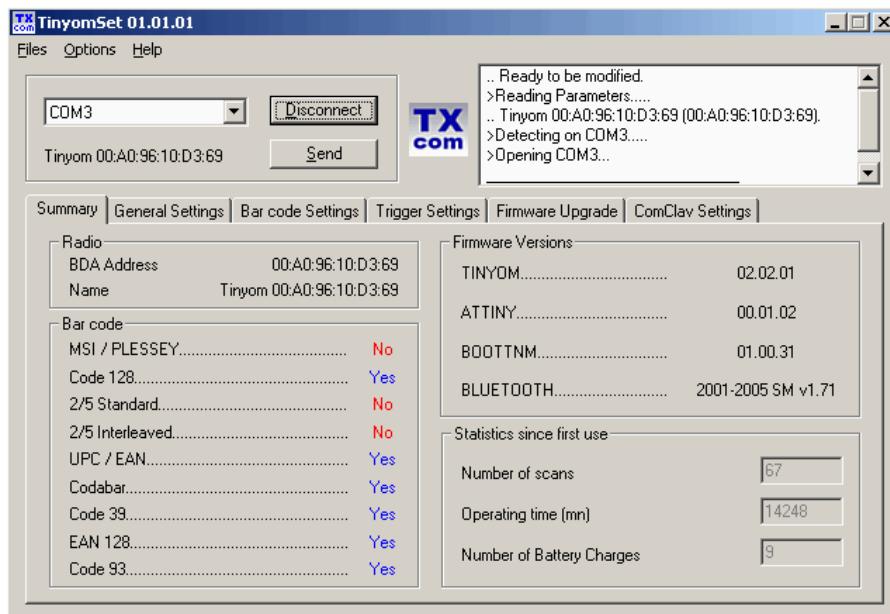
- Summary
- General settings
- Bar code settings
- Trigger settings
- Firmware upgrade
- ComClav settings.

Settings are accessible when the TXcom reader is connected to a Bluetooth device or when editing a ComClav.ini file.

TINYOM / HELYOMBT UTILITIES USER GUIDE

Once the TXcom reader paired to the Bluetooth device, select the virtual port used by the Bluetooth connection then click on *Connect* button to establish connection. Data will be displayed after a while in *Summary* tab.

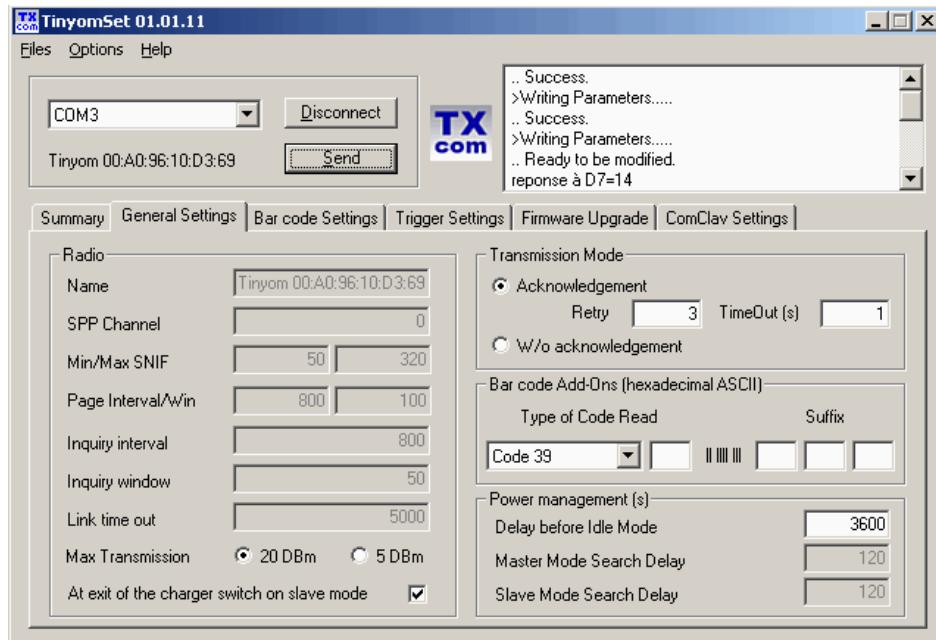
Summary



In *Summary* tab, basic data are displayed (BDA address, TXcom reader name, Bar code enabled, firmware version, and statistics since first use).



General Settings



Radio

TXcom reader is compatible with Bluetooth Class I and Class II. By default, it is set to Class I but it is possible to change it through *Max Transmission* parameter.

Max Transmission	Class	Open field range
20 dBm	I	100 m
5 dBm	II	15 m

When *At exit of the charger switch on slave mode* parameter is ticked, if the TXcom reader is used in master mode, the user should scan the pairing label after each charge, this protect from undesired connection if the TXcom reader change frequently from a Bluetooth device to another. On the other hand, if the TXcom reader is paired with a fix Bluetooth device, it is possible to untick this



parameter, TXcom reader will try to connect to the last device with which it was connected from charger exit.

Transmission mode

With acknowledgment

After a bar code read, the TXcom reader sounds a good read beep and sends the bar code. It waits for acknowledgment during *TimeOut* delay in seconds. When it receives the acknowledgment, the TXcom reader sounds a good transmission beep and the green LED flashes fast. If it doesn't receive the acknowledgment, the TXcom reader tries to send once again the bar code. When the number of retry defined by *Retry* is exceeded, the TXcom reader sounds 3 beeps and the red LED flashes fast.

This mode allows indicating to the user a transmission problem between the TXcom reader and the remote Bluetooth device.

Without acknowledgment

The TXcom reader sends a bar code. The TXcom reader sounds 2 beeps and the green Led flashes fast.

In this mode, there's no control of the good transmission of the bar code to the Bluetooth device.

We recommend to use acknowledge mode to secure communication between TXcom reader and Bluetooth device.



Bar code Add-Ons

Type of code read prefix and suffix can be transmitted with the bar code.

Type of Code Read

The type of code read can be sent with the bar code. This character (hexadecimal ASCII) when sent, is located in front of the bar code. By default, no prefix is sent.

For each type of code enter the hexadecimal ASCII value of the character to add.

Example:

Read Code	Entered value (hexadecimal ASCII)	Character sent as prefix
Code 39	41	A
Interleaved 2/5	49	I
Standard 2/5	52	R
Codabar	46	F
UPC/EAN	45	E
Code 128	43	C
MSI/PLESSEY	4D	M
Code 93	47	G
EAN 128	4A	J
CODABLOCK F	56	V

Suffix

The bar code can end with a suffix. It includes one to three characters, coded in hexadecimal ASCII.

Example to send character Carriage Return (CR), enter value 0D.

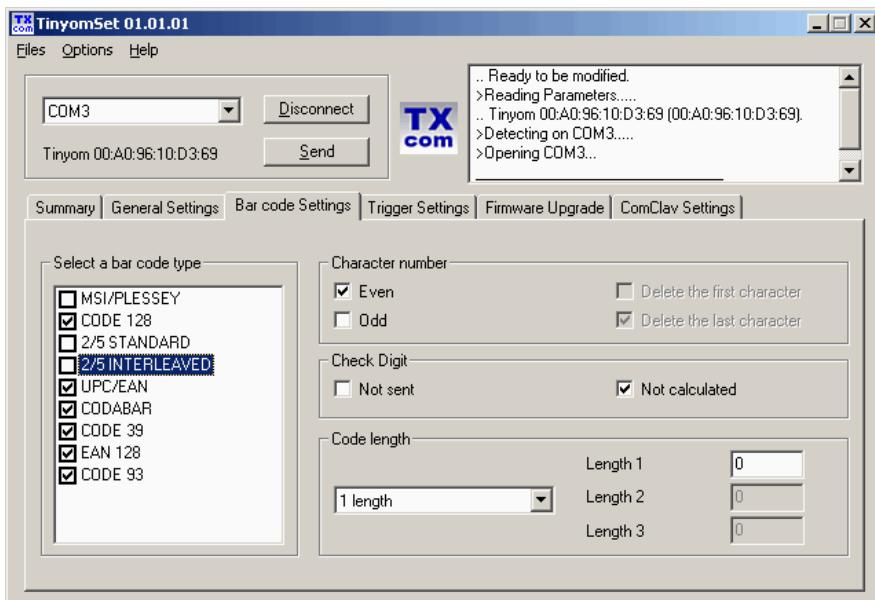
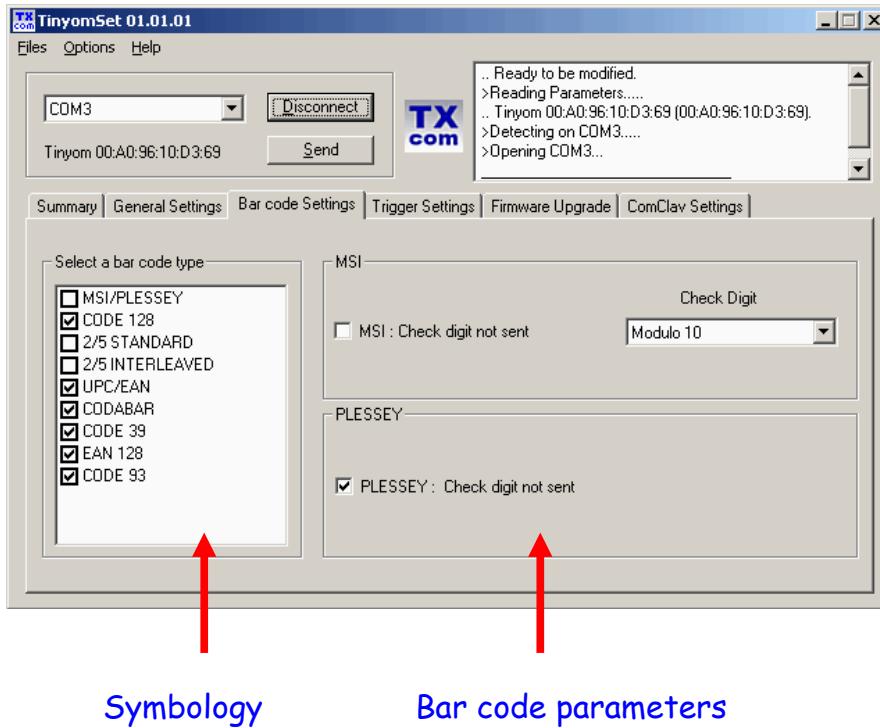


Power management

The parameter *Delay before idle mode* defines the delay without activity after which the TXcom reader turn off. This delay is set to 1 hour par default.



Bar code Settings



Default bar code

CODE 128

CODE EAN 128

CODE 39

CODE 93

CODABAR

CODE UPC/EAN

Enabling a bar code

Select the bar code by clicking on, its parameters are displayed

Set up the parameters

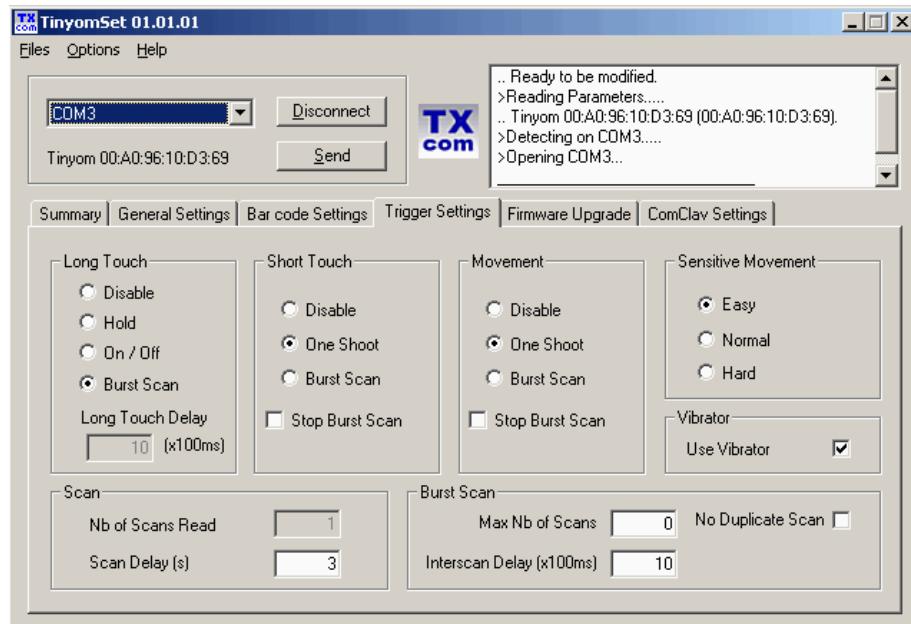
Tick the check box to enable the symbology.

Disabling a bar code

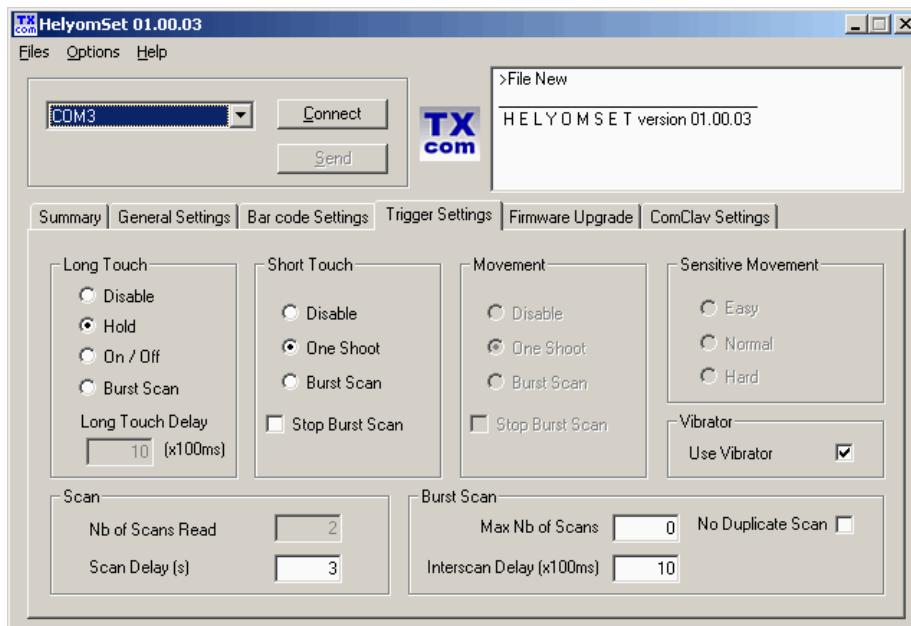
Select the bar code and untick the check box

Trigger Settings

Trigger settings vary from the Tinyom to the HelyomBT.



Trigger Settings Tab TinyomSet



Trigger Settings Tab HelyomSet

The laser reading is triggered by the activation of the touch sensor or the motion sensor for the Tinyom, the trigger button for the HelyomBT, or by radio through a protocol for both.



Read could be either one shot mode or burst mode or hold.

Default value	Tinyom	HelyomBT
Long Touch	Burst scan	Hold
Short Touch	One shot	One shot
Movement	One shot	

One shot

This read mode can be activated:

- By a short touch on the sensor or the button
- By activation of the motion sensor for the Tinyom

In this mode, once the beam is on, it remains on without user action until that the TXcom reader reads a bar code. To make the next read, it is necessary to trig the laser once again.

Hold

In this mode, to keep the beam on, the user should press the touch sensor or the button until that the TXcom reader reads a bar code. To make the next read, it is necessary to start the laser once again.



Multiscan

This burst mode can be activated:

- By a short touch on the sensor
- By a long touch on the sensor or the button
- By activation of the motion sensor

In this mode, once the beam is on, it remains on without any user action until that the TXcom reader reads a bar code and starts automatically the beam for the next read after a configurable delay.

When Burst mode is active, the TXcom reader sounds 3 beeps and the green LED flashes twice.

Burst mode is stopped:

- By a short touch on the sensor
- By activation of the motion sensor
- After a read failure (default value)
- After the read of the number of bar code defined by *Max Nb of Scans*

In burst mode in *Burst Scan area Interscan Delay* parameter, it is possible to adjust the wait delay between each read by 100 ms step. By default, the delay is set to 1 second.

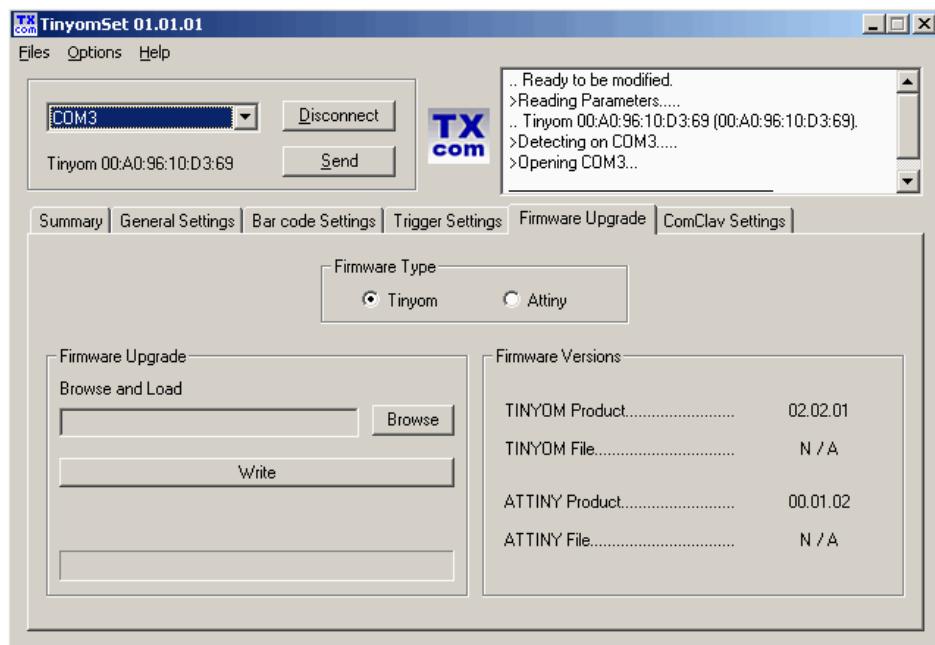
If *No Duplicate Scan* is ticked, the TXcom reader check the read code compared to the previous read. If the code is different, it is sent, if not it is not validated.

The TXcom reader turns off after a long touch of one second on the sensor if the trigger is set to ON/OFF.

In *Scan* area, the delay during which the laser beam remains on is configurable (parameter *Scan Delay*). It is set to 3 seconds par default.

In *Sensitive Movement* area, 3 sensibility levels can be selected. It is recommended to use the *Easy* trigger during the first use of the Tinyom, and select the *Normal* trigger afterwards to avoid undesired trigger while hand moves.

Firmware Upgrade



In Firmware versions it appears:

For the Tinyom firmware

The current version into the Tinyom (TINYOM Product)

The version to be loaded (TINYOM File)

For the ATTINY software

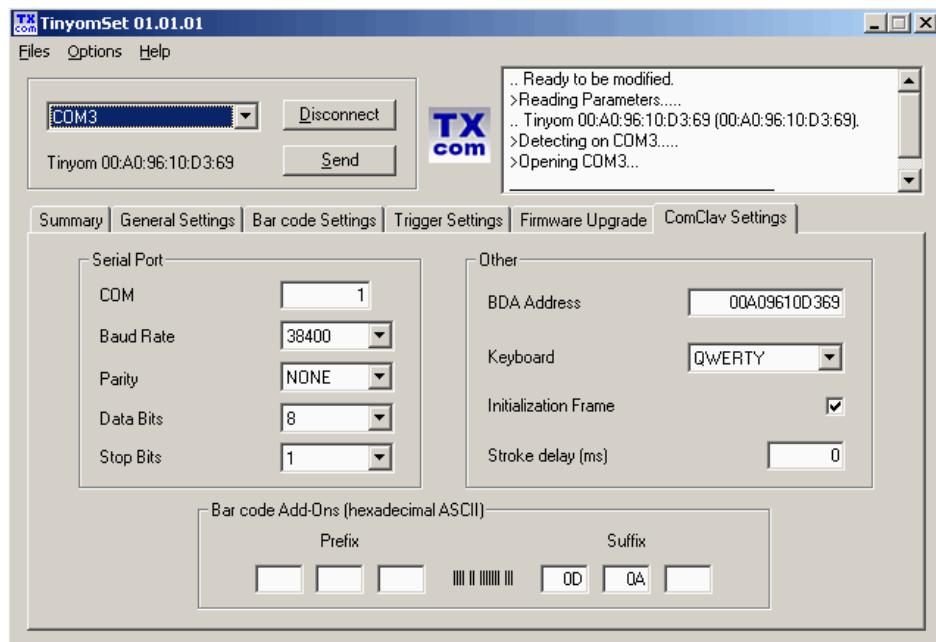
The current version into the Tinyom (ATTINY Product)

The version to be loaded (ATTINY File)

The ATTINY software manages only the motion sensor and the battery charger.

ComClav Settings

It allows creating a new ComClav.ini file. This file will be used by ComClav keyboard emulation.



Parameters	Designation
COM	Serial port on which the TXcom reader is connected
BDA Address	TXcom reader Bluetooth Address (6 x 2 hexadecimal bytes)
Keyboard	AZERTY or QWERTY
Initialization frame	When this parameter is ticked, the configuration saved in ComClav.ini file will be upload in the TXcom reader.
Stroke delay	Delay in millisecond between each character before it is sent to the host. This delay is used to control the flow of data from the Tinyom. Default value : 0 no delay
Bar Code Add-Ons	Prefix and suffix which frame the bar code. They include one, two or three characters in hexadecimal ASCII. Example: to add character Carriage Return at the end of the code, enter value 0D.

Setting Up the TXcom reader

1. Run *TinyomSet.exe* or *HelyomSet.exe*
2. In menu *options* select the language.
3. Select the COM port on which the TXcom reader is connected.

Check the virtual port number in Bluetooth properties on your PC.

Start / Settings / Control Panel / Bluetooth Configuration / Client Application / Properties
button

4. Click on *Connect* button.

If the connection is successful, the message *Ready to be modified* is displayed in the message window.

Basic information is displayed in *Summary* tab.

5. Modify bar code settings and/or trigger settings. Then click on *Send* button.

A message *Success* is displayed in the message window.

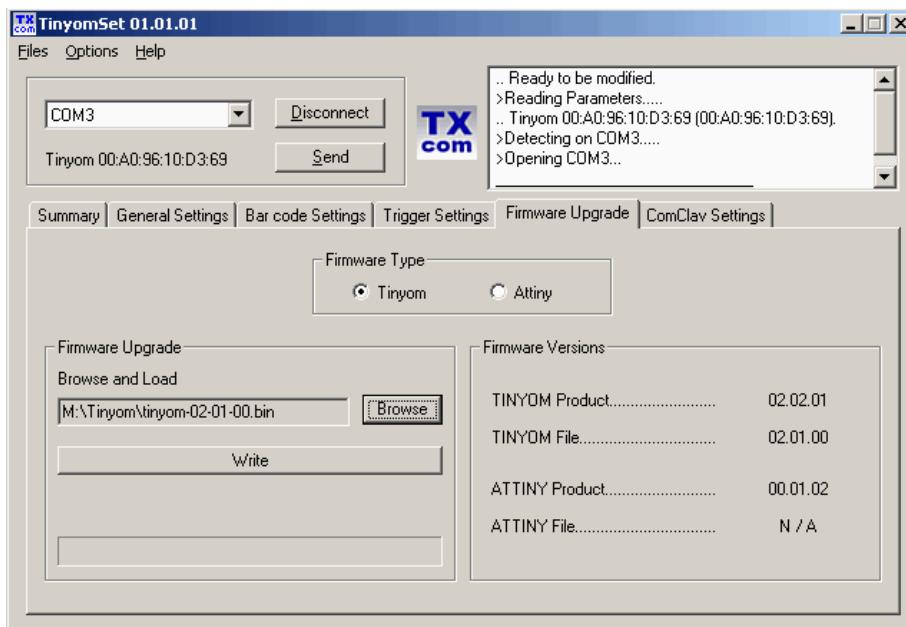
6. When finished, click on *Disconnect* button and exit *TinyomSet* or *HelyomSet.exe*



Upgrading TXcom reader firmware

Recommendation: be sure that the battery is charged before upgrading Txcom reader.

1. Run *TinyomSet.exe* or *HelyomSet.exe*
2. Select the COM port on which the TXcom reader is connected.
3. Click on *Connect* button.
4. Select *Firmware Upgrade* tab.
5. Select Firmware type: Tinyom or Attiny Firmware.
6. Click on *Browse* button and select the binary file to be loaded.
7. Click on *Write* button to upgrade the TXcom reader.



8. While loading the file, TXcom reader green LED flashes, the red LED flashes in loop.

The messages *Starting upgrade*, *Writing block n*, then *Ending upgrade* are displayed on your PC.
At the end, a beep sounds.

9. Click on *Disconnect* button and exit *TinyomSet* . or *HelyomSet.exe*

Resetting TXcom reader

It may be necessary to reset TXcom reader.

1. Run *TinyomSet.exe* or *HelyomSet.exe*
2. Select the COM port on which the TXcom reader is connected.
3. Click on *Connect* button.
4. Select *Options / Commands / Reset option*.
5. Exit *TinyomSet* or *HelyomSet.exe*

A reset causes a Bluetooth disconnection. It loads the previous configuration in the TXcom reader.



Default Configuration

Triggering mode	Default Configuration
One shot	By short touch By movement
Burst mode	By long touch
Max number of scans	0 (unlimited number of scans)
Interscan delay	1s
Duplicate scan	No control

Bar code	Default Configuration
Enabled Symbologies	CODE 128 CODE EAN 128 CODE 39 CODE 93 CODABAR CODE UPC/EAN
Suffix1	00
Suffix2	00
Suffix3	00

The reading of this code will return all parameters to their default value (factory settings).



Default Configuration

Creating a new configuration file

When you have to set several TXcom readers, it is recommended to create a ComClav.ini configuration file using TinyomSet or HelyomSet software, then to charge this file on each Bluetooth terminal.

During the execution of ComClavXP or ComClavCE on the Bluetooth terminal, the initialization frame created by TinyomSet will be thus sent to the TXcom reader.

To create a TXcom reader configuration file:

1. Run *TinyomSet.exe* or *HelyomSet.exe*
2. Select *Files / New*.
3. Edit parameters in the different tabs.
4. Save the new configuration (*Files / Save*) in *ComClav.ini* file.

Loading a new configuration

To load a new configuration:

1. Run *TinyomSet.exe* or *HelyomSet.exe*
2. Establish a Bluetooth connection between the Tinyom and the device.
3. Select *Files / Open*.
4. Open the file to be downloaded in the dialog box.
5. Click on *Send* button.

The message *Success* is displayed in message window.



ComClavXP Software

ComClavXP is a keyboard emulation software for Windows XP. It allows redirecting the bar code read to the keyboard.

Installation

ComClavXP software is installed when you execute ParamXP Setup on your PC.

Starting ComClavXP

1. Run ComClavXP.
2. The following screen is displayed.



ComClavXP is started automatically and the window goes to the system tray. TXCom green icon appears in system tray.



BT Connection

In master mode, pair the TXcom reader to the Bluetooth device by scanning the BDA address of the device.

In slave mode, open the serial port, and then connect the Bluetooth device to the TXcom reader.

The connection is established when **the TXcom reader blue LED flashes briefly**.



Stopping a BT connection

It depends on Bluetooth device. Putting the TXcom reader on the charger also ends connection.

Ending ComClavXP

To exit ComClavXP, right click on TXcom icon in system tray and select *Exit*.

Setting Parameters

1. Run ComClavXP.

Ensure TinyomSet or HelyomSet is not running, when you run ComClavXP.

2. Click on TXcom green icon in system tray.



The following screen is displayed.



3. Click on *Stop* button. TXcom icon in system tray switches to red.



4. Set up the virtual port in which the TXcom reader is connected.

Select the keyboard (AZERTY ou QWERTY).





5. Then click on *Options* button to set up Prefix and Suffix in hexadecimal and set up transmission mode. Example to add Carriage Return at the end of the code, enter value *0D* in *Suffix* area.



When the *Acknowledgment* parameter is ticked, the TXcom reader waits for acknowledgment after sending a bar code.

The *Initialization Frame* parameter, when ticked, will load the configuration of *ComClav.ini* file to the TXcom reader erasing the previous configuration.

The *Initialization Frame* parameter is accessible when the *Acknowledgment* parameter is ticked.

6. Click on *OK* to confirm the parameters.
7. Click on *Start* button to start program.

ComClavCE Software

ComClavCE is a keyboard emulation software for Windows CE. It allows redirecting the bar code read to the keyboard.

ComClavCE is compiled with ARMV4I processor and use HCI Bluetooth stack. It is compatible with Windows CE version 4.2 and higher.

Starting ComClavCE

1. Run ComClavCE.

ComClavCE starts automatically and the window goes to the system tray.



2. Click on the TXcom icon in the system tray.

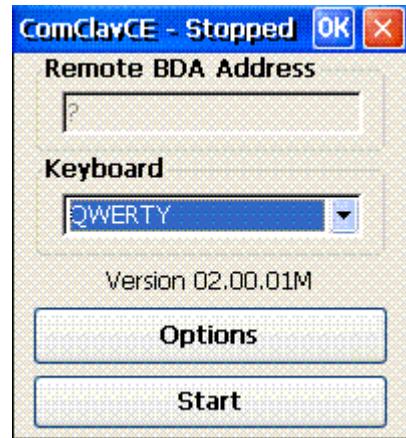
The following screen is displayed.



BT Connection

1. Click on the green TXcom icon in the system tray.

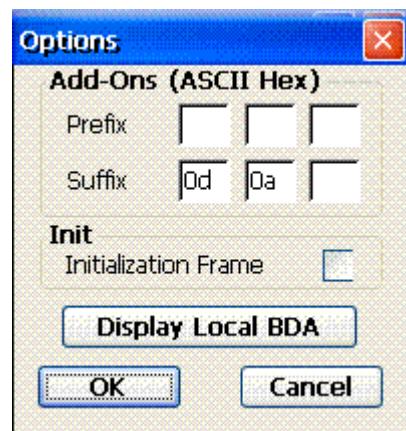




2. Then click on *Stop* button in the displayed screen.
TXcom icon becomes red in the system tray.



3. Click on *Options* button



4. Click on *Display Local BDA* button, the following screen is displayed



5. If you use a TXcom reader equipped with a CMOS reader, scan the bar code on the Windows CE terminal, if not edit the pairing label with BDAPrint utility using the BDA address displayed and scan it.
6. Close the pairing screen by clicking on the cross of the Title bar, and click on the *OK* button of the Options window.
7. Click on *Start* button

The TXcom reader blue LED flashes briefly.

Stopping a BT connection

1. Click on TXcom green icon in system tray.
2. Then click on *Stop* button in the displayed screen.

The TXcom icon switched to red in the system tray.

Ending ComClavCE

After stopping BT connection, exit ComClavCE by clicking on the cross in the title bar. A password is required. The default password is *txcom*. Confirm by *Ok*.





Setting Parameters

1. Run ComClavCE.
2. Click on the TXcom icon in the system tray.



The following screen is displayed.

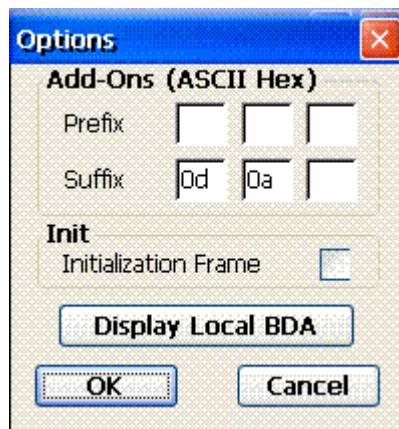


3. Click on *Stop* button.

4. Set the parameters.

Select the keyboard (AZERTY or QWERTY).

5. Then click on *Options* button to set up Prefix and Suffix in hexadecimal. Example to add Carriage Return at the end of the code, enter value *0D* in *Suffix* area.



The *Initialization Frame* parameter, when ticked, will load saved configuration to the TXcom reader erasing the previous configuration.

6. Click on *OK* to confirm parameter.
7. Click on *Start* button to save parameters and start ComClavCE.

The window goes to the system tray.



ComClavMobile Software

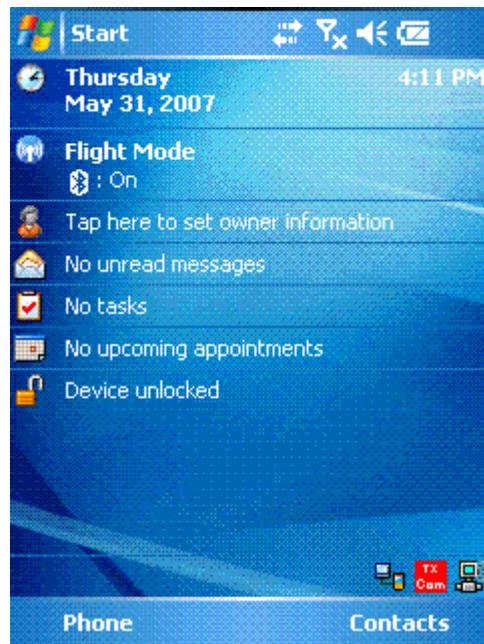
ComClavCE is a keyboard emulation software for Windows Mobile. It allows redirecting the bar code read to the keyboard.

ComClavCE is compiled with ARMV4I processor and use HCI Bluetooth stack. It is compatible with Windows Mobile version 2003 and higher.

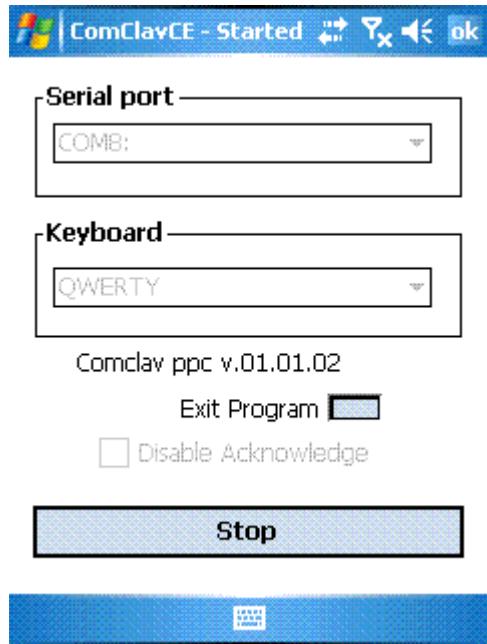
Starting ComClavCE

1. Run ComClavCE.

ComClavCE starts automatically and the window goes to the system tray. The icon remains red as long as no TXcom reader is connected.

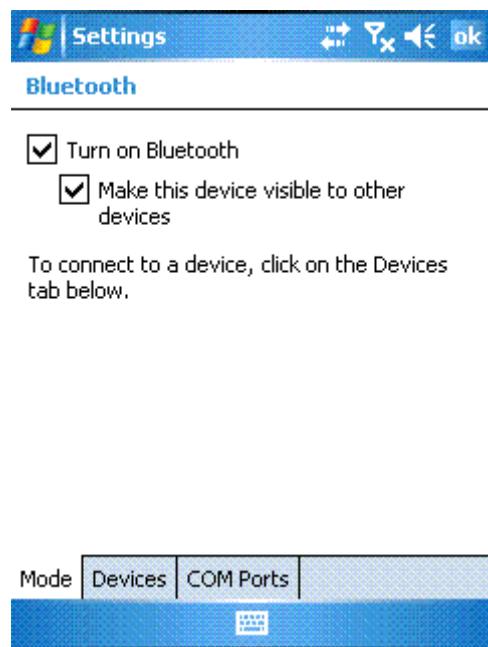


2. Click on TXcom icon in the system tray.
The following screen is displayed

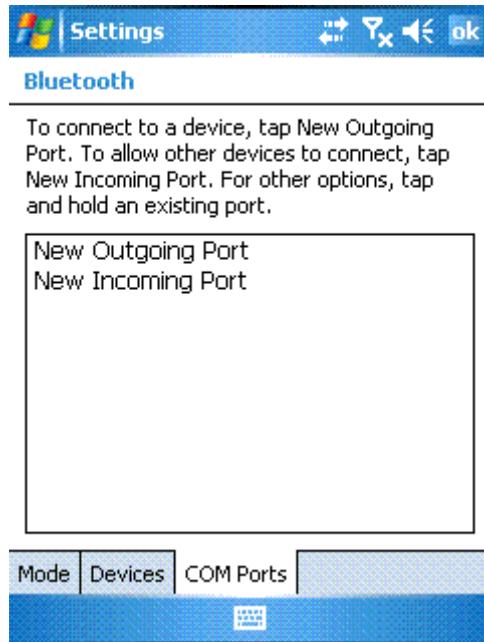


Bluetooth Configuration on Windows Mobile

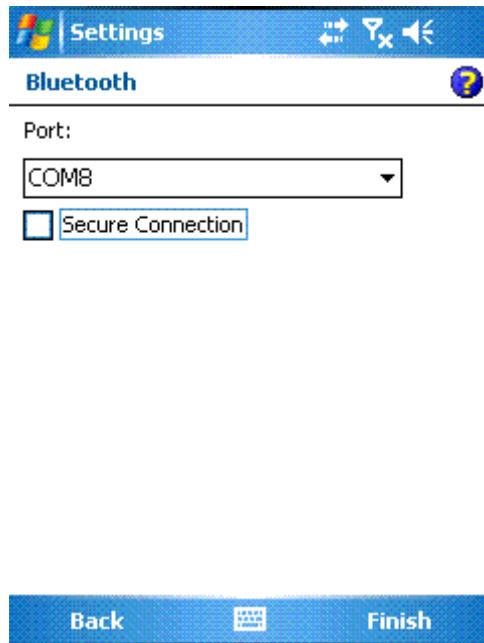
1. On Windows Mobile Bluetooth device, go to Bluetooth parameters *Start/Settings/Connections/Bluetooth*



2. Activate Bluetooth by ticking *Turn on Bluetooth*

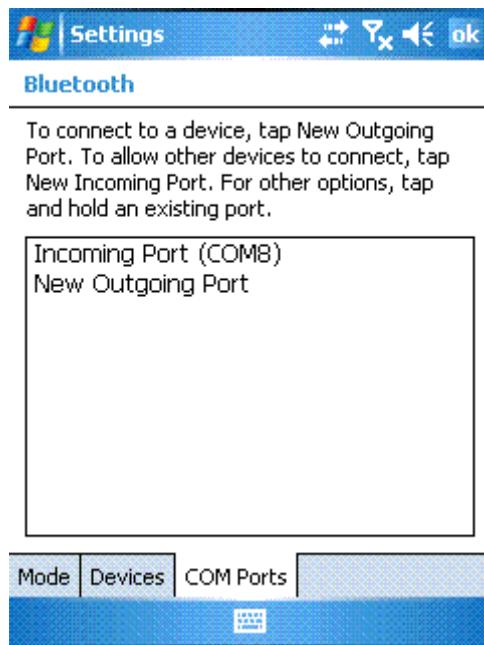


3. In COM Ports, select New Incoming Port



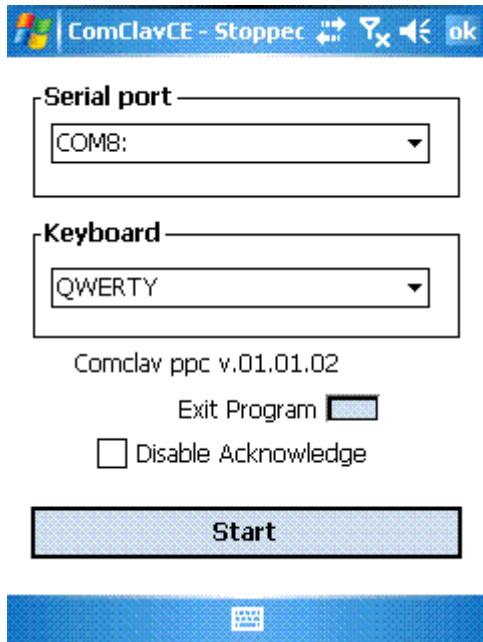
4. Select the virtual port to use and untick Secure Connection then click on Finish

The following screen is displayed, click on ok



BT Connection

1. Click on TXcom red icon in the system tray.
2. Then click on *Stop* button in the displayed screen.



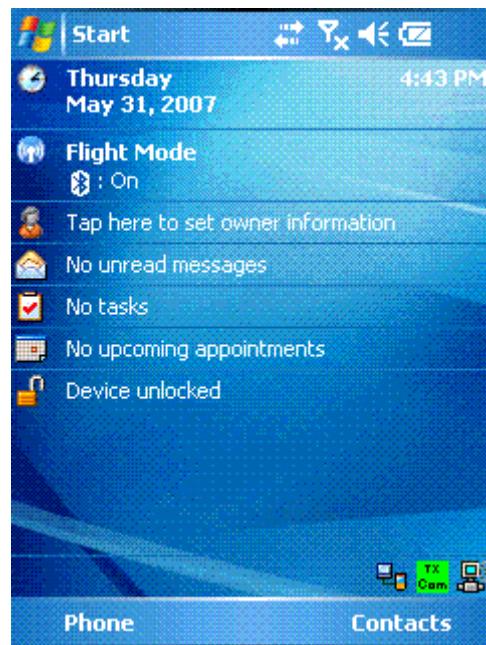
3. Select the virtual port created in Bluetooth configuration (see Bluetooth Configuration on Windows Mobile).



The *Initialization Frame* parameter, when ticked, will load saved configuration to the TXcom reader erasing the previous configuration.

4. Edit the pairing label with BDAPrint utility by using BDA address of Windows Mobile device and scan it.

Click on *Start* button, TXcom icon becomes green when the TXcom reader is connected to the Windows Mobile device.



The TXcom reader blue LED flashes briefly.

Stopping a BT connection

1. Click on the green TXcom icon in the system tray.
2. Then click on *Stop* button in the screen displayed.

TXcom icon becomes red in the system tray.

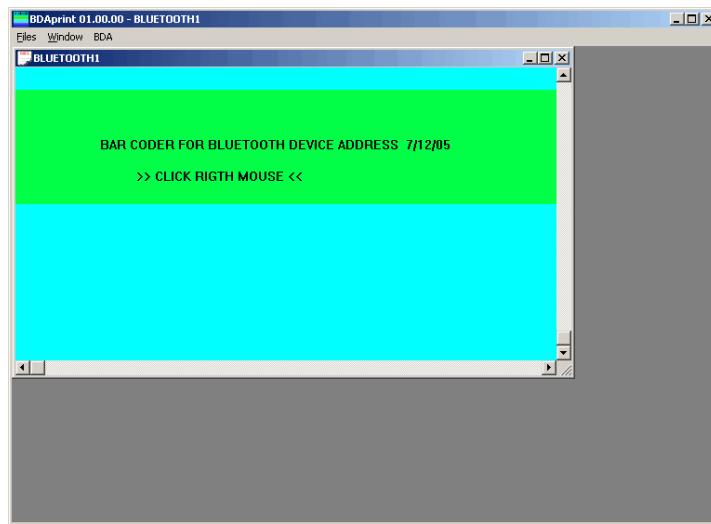
Ending ComClavCE

After stopping BT connection, exit ComClavCE by clicking on the cross in the title bar. A password is required. The default password is *txcom*. Confirm by *Ok*.



BDAprint Software

BDAprint software allows printing the pairing bar code label used to connect the TXcom reader in master mode. It is supplied with TinyomSet HelyomSet and ComclavXP when installing ParamXP.



1. Run BDAprint
2. Right click,
3. Select option *BDA / ADD address*, the following screen is displayed :

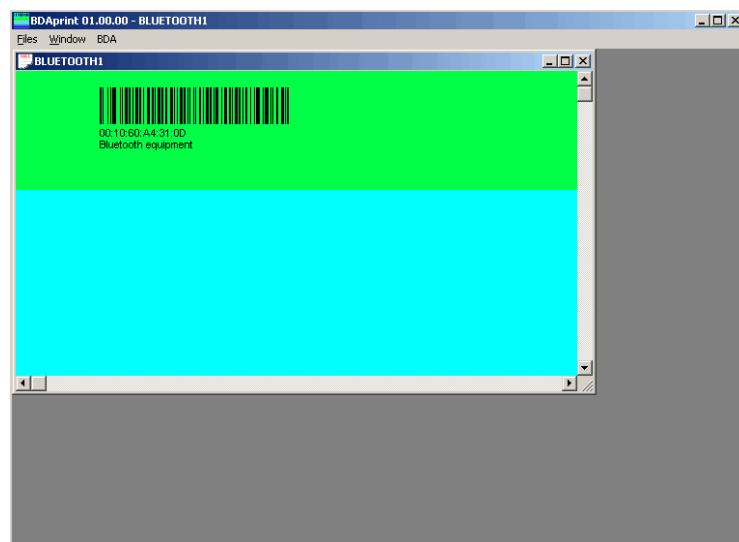


4. Set the BDA address of the Bluetooth device and click on *OK* button,

TINYOM / HELYOMBT UTILITIES USER GUIDE



5. Select option *Files / Print*, choose the printer and click on *OK*,



6. Exit BDAPrint.

Safety / Regulatory

FCC NOTE:

Interference statement:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Modification statement:

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by TXCOM, may void the user's authority to operate the equipment.

Class B digital devices regulatory notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by 1 or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for help

LASER (Excluding CMOS CCD version)

Class 2 Bar Code Reader.

Low power laser. Eye protection is normally afforded by aversion responses.

Standard: EN60825-1 1994 edition



PRECAUTIONS FOR SAFE HANDLING

These products include lithium ion batteries; do not open, crunch or incinerate the product.

Improper handling of lithium ion batteries may result in injury or damage from electrolyte leakage, heating, ignition or explosion.

Batteries must not be charged above 45°C.

There is no servicing parts inside: products should not be opened except by qualified servicing personal.

DISCARDING SCANNER AND CHARGER

According to European Directive 2002/96/CE of 2003/01/27 on waste electrical and electronic equipment (WEEE) producer and distributor provide freely tacking-back and recycling device at end of life.

