

RSS-expanded	Enable RSS-expanded
DataMatrix ECC000-ECC140	Enable DataMatrix ECC000-ECC140
DataMatrix ECC200	Enable DataMatrix ECC200 (default)
Aztec	Enable Aztec (default)
Aztec Runes	Enable Aztec Runes
QR Code	Enable QR Code (default)
Maxi Code	Enable Maxi Code (default)
PDF417	Enable PDF417 (default)
MicroPDF417	Enable MicroPDF417 (default)

Table 3-17 Code configure description 2D CMOS

### 3.2.1.3 Prefix and suffix TAB

With these options alterations can be made to the format of the transmitted data string.

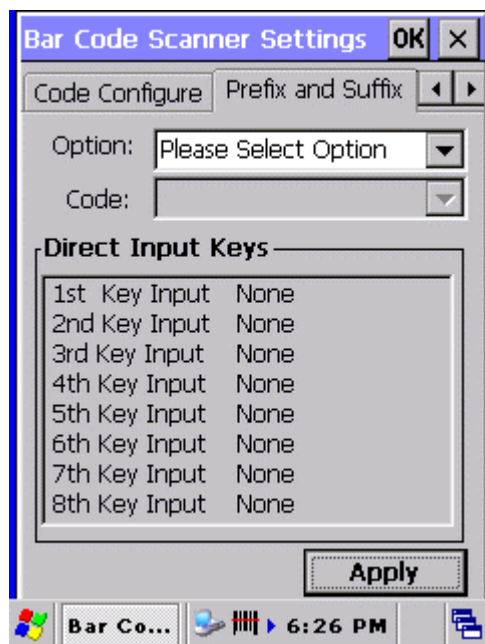


Figure 3-2 Prefix and Suffix Tab

Options available are :

- Transmission of a preamble,
- Transmission of a prefix,
- Transmission of a suffix,

- Transmission of a postamble.

The transmitted string format is :

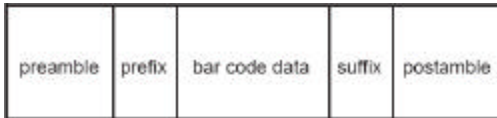


Figure 3-2 **Transmitted string format**

A prefix and suffix of maximum 4 direct input entries each may be included in front and at the end of the string respectively. A preamble is transmitted before the prefix and can contain up to 8 direct input characters. A postamble is transmitted after the suffix and can contain up to 8 direct input characters. A preamble and postamble will be transmitted for all symbologies.

Default settings are :

- Preamble : None
- Prefix : None
- Suffix : ^M (CR)
- Postamble : None

Tap the “Please Select Option” field to select one of above mentioned options :

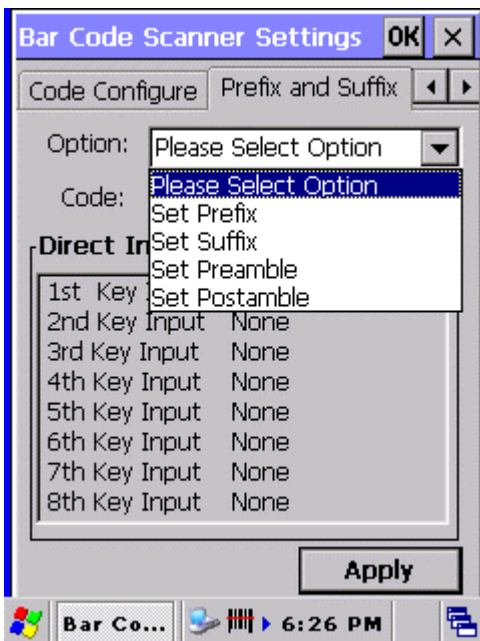


Figure 3-2 **Prefix and Suffix, select Option list box**

Select one of these 4 options which meet your requirement.

In the Prefix and Suffix option, 4 key input fields and their current settings are shown :

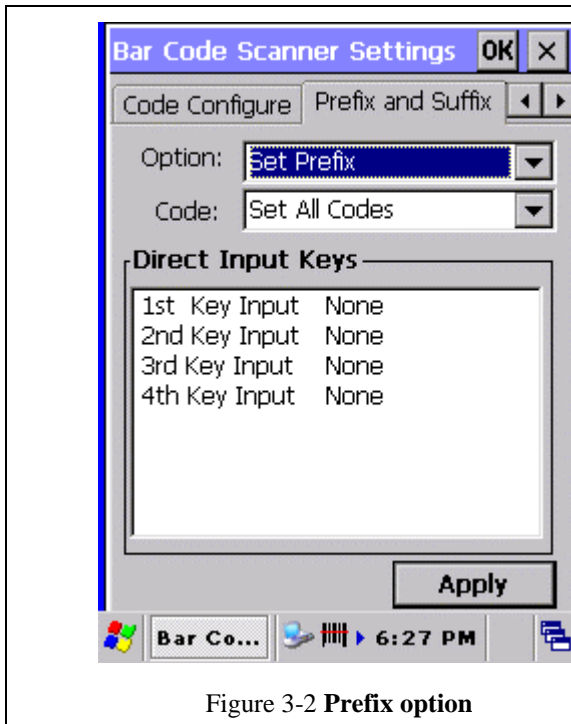


Figure 3-2 Prefix option

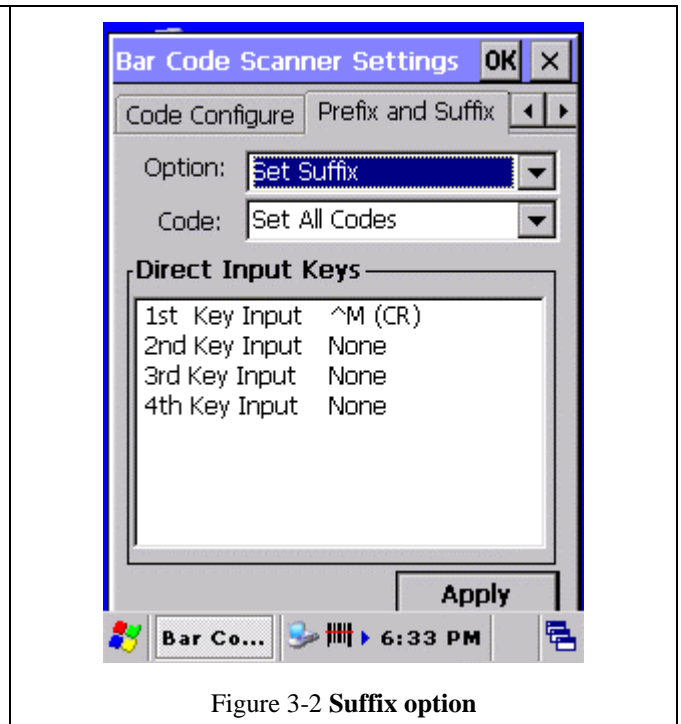


Figure 3-2 Suffix option

The default suffix is ^M (CR) .

In the Preamble and Postamble option, 8 key input fields and their current settings are shown :

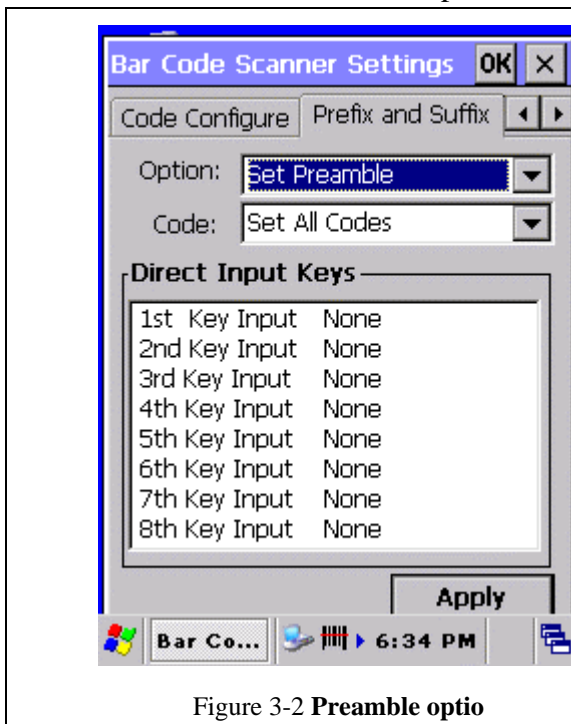


Figure 3-2 Preamble optio

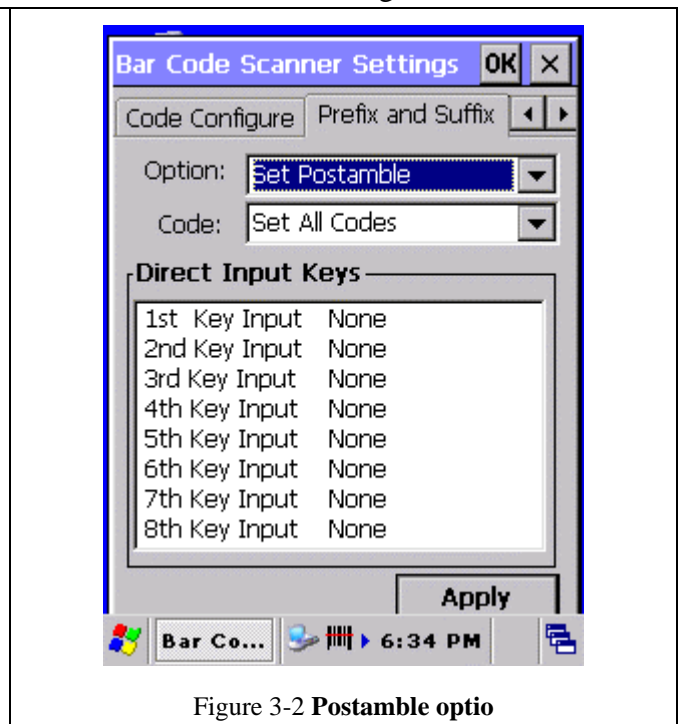


Figure 3-2 Postamble optio

In the code option field can be indicated for which symbology the current prefix or suffix should be configured. The “Clear All Codes” options will clear the prefix for all symbologies.

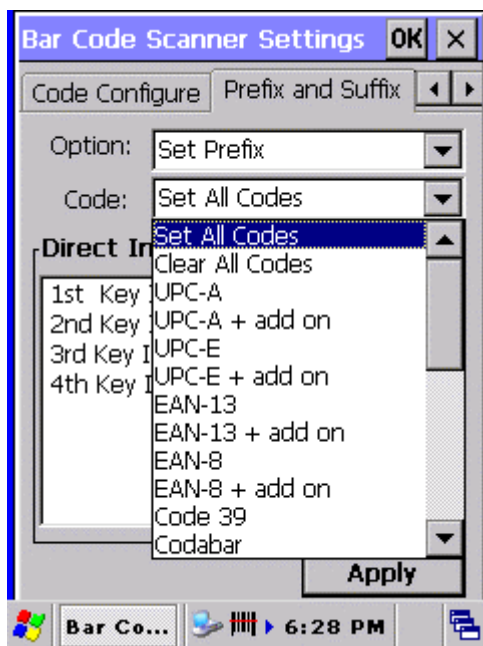


Figure 3-2 Prefix : Code list box.

Example : to set the characters “UPCA” for bar code symbology UPC-A, tap in the “Direct Input Keys” section, the field “1<sup>st</sup> Key Input”. A list box will popup, which shows all 128 ASCII characters. SPACE is the <Space> character (ASCII 32dec, 20hex). DEL is the <DEL> character 127dec 7Fhex. Scroll downwards to the character ‘U’ and tap the character ‘U’.

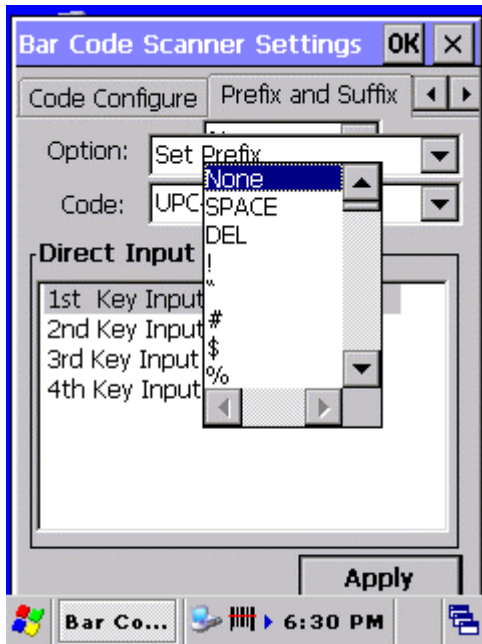


Figure 3-2 Prefix : Direct input keys selection box.

Thereafter the display will look like :

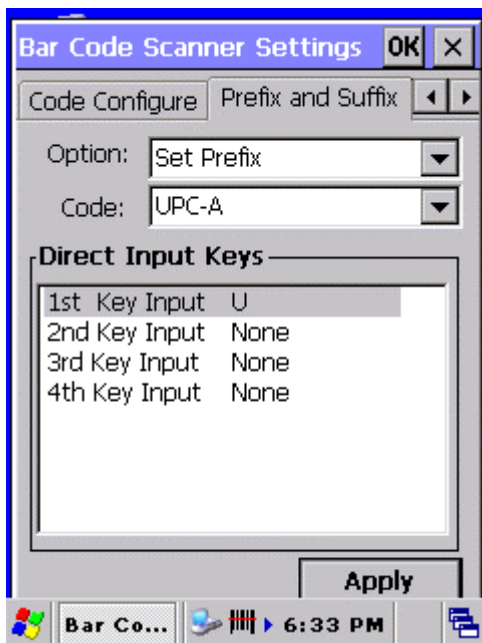


Figure 3-2 Prefix : Selected character 'U' for UPC-A..

Repeat these steps for the characters 'P', 'C' and 'A'.

Thereafter the display will look like :

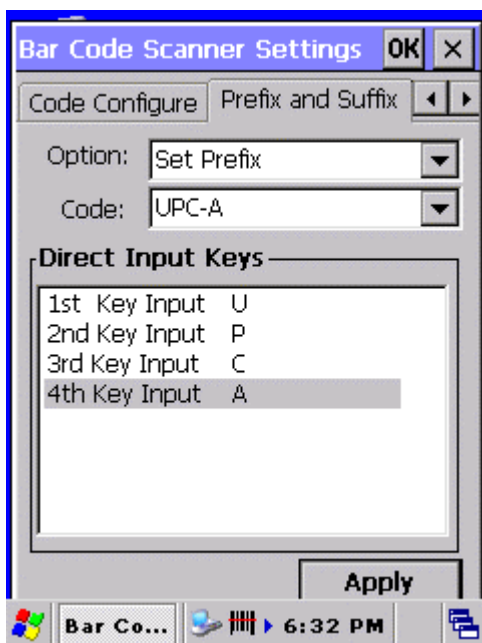


Figure 3-2 Prefix : Selected characters 'UPCA' for UPC-A..

If the bar code reader reads an UPCA label with data '071589812309', it will be send to the application as : 'UPCA071589812309<CR>' where <CR> is the default suffix ASCII character <CR>.

Preamble and postamble are applicable for all bar code symbologies. Therefore the code option list box shows only 1 option : "Clear all codes".

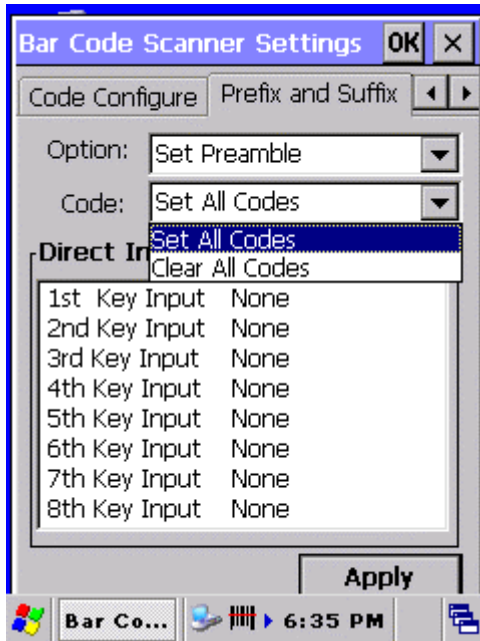


Figure 3-2 Preamble : Only 1 code option.

### 3.2.1.4 Quiet zone TAB

With this option the reader can decode bar codes that have smaller start and/or end margins than specified for the symbology. Be carefully when using this option. It may increase the possibility of partial reads and ghost reads. Do not use smaller margin checks then necessary. If possible replace the bar code labels by ones that have correct start and end margins.

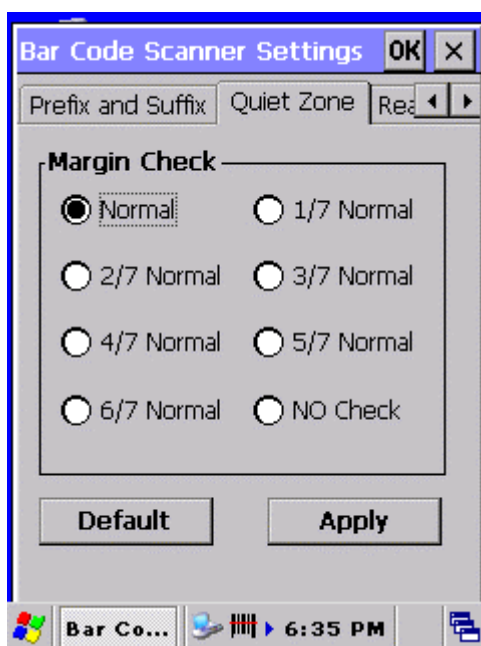


Figure 3-2 Quiet zone options.



### 3.2.1.5 Read Mode TAB

With this option several read modes can be changed.

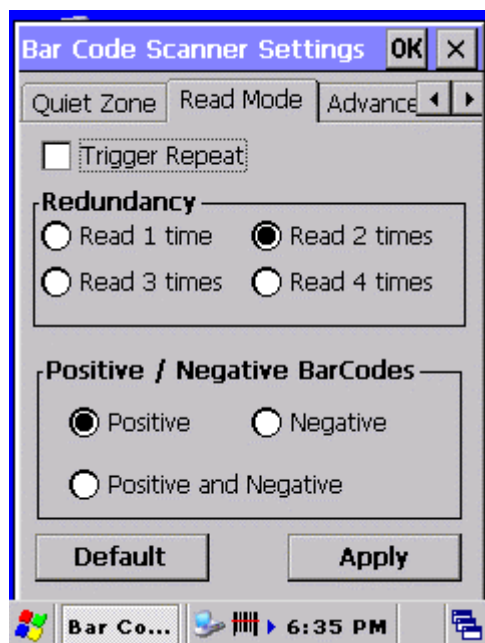


Figure 3-2 Read mode options.

Field name	Description
Trigger repeat	This option makes it more easy to select a single bar code from a sheet filled with barcodes. If the trigger switch is pressed once, the laser beam is on during the configured read time. The laser beam can now be moved to the required bar code. If the trigger switch is pressed again, the bar code is decoded and transmitted. If the read time timer expires, the laser switches off and the trigger sequence should be repeated. If the read time is set to zero, then if the trigger switch is pressed, the laser is on, but does not accept bar codes. As soon the trigger switch is released, the barcode is decoded and transmitted. Default is disabled.
Redundancy	This is the number of times that a label must be correctly decoded before it is transmitted. Selecting a higher redundancy count makes reading slower, but is reduces the probability of reading errors, especially when labels of poor definition are used.

	Read 1 time	Redundancy = 0
	Read 2 times	Redundancy = 1 (default)
	Read 3 times	Redundancy = 2
	Read 4 times	Redundancy = 3
Positive / Negative bar codes	Usually bar codes are printed black on white, but sometimes white on black. These labels are called positive and negative respectively. In case the 'negative bar codes' option has been selected, positive labels may not be decoded or with difficulty.	
	Positive bar codes	Read black on white labels only (default)
	Negative bar codes	Read white on black labels only
	Positive and negative bar codes	Read positive or negative labels automatically.

Table 3-17 Read mode options descriptions

### 3.2.1.6 Advanced TAB

If enabled, this field can be used to send serial commands to the bar code reader. Use this option only in case you want to access bar code reader features which are not documented in this user's manual, but are documented in Opticon's Universal Menu Book. If there is no need to make any other change to the bar code reader settings, do not use this option. A maximum of 180 characters can be input. Default this option is disabled.

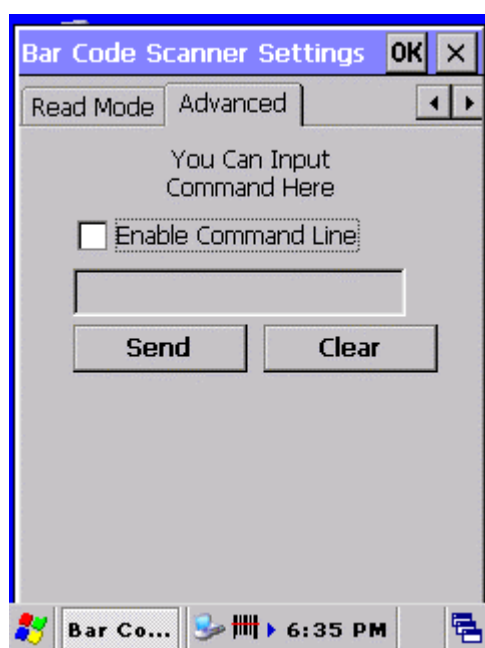


Figure 3-2 Command line options.

Example :

To set a prefix 'Test' for UPC-A, lookup in Opticon's Universal Menu Book (UMB) the serial command's of :

- prefix UPC-A : see UMB paragraph 4.2.1, serial command = N1
- Direct input 'T' : see UMB paragraph 4.3.4, serial command = 0T
- Direct input 'e' : see UMB paragraph 4.3.5, serial command = \$E
- Direct input 's' : see UMB paragraph 4.3.5, serial command = \$S
- Direct input 't' : see UMB paragraph 4.3.5, serial command = \$T

Input these 5 commands into the Command line field by using the keyboard Input panel.

If the Send button is pressed, the serial command sequence is send to the bar code reader.

To save the settings in the bar code reader, add the commands Z2 after the last command sequence.

See picture below :

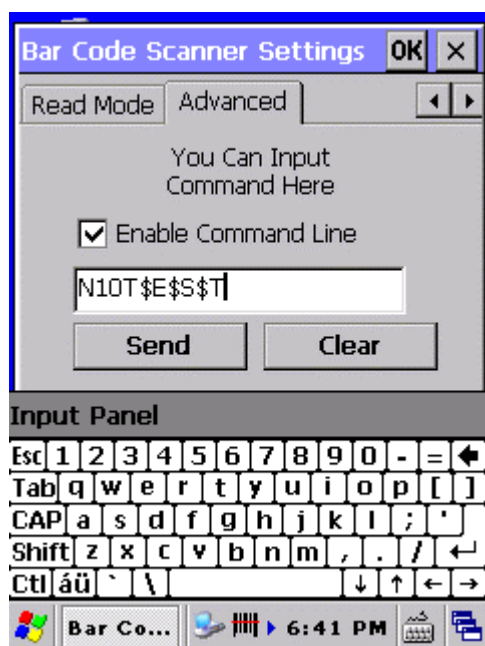


Figure 3-2 Example of command line usage.

### 3.2.2 Bluetooth Device Properties



ICON	ITEM & FUNCTION
	<ul style="list-style-type: none"> <li data-bbox="336 461 1240 495">• <b>“Scan Device” Tab ( Figure 3-25) :</b></li> <li data-bbox="336 506 1240 779">✓ Tap the <b>Scan Device</b> button to initiate a scan for Bluetooth devices. The Bluetooth manager lists the Bluetooth devices that it finds, see <b>Figure 3-26</b>. If Bluetooth hardware is not found in the PDT, the <i>Bluetooth Hardware Error</i> window appears, see <b>Figure 3-27</b>. <b>Table 3-18</b> described the Bluetooth Icons.</li> <li data-bbox="336 790 1240 1021">✓ Double tap the device to connect to on the device list. The Bluetooth Manager Authentication window appears. Tap <b>No</b> to connect to the device without authentication, or tap <b>Yes</b> to authenticate the device before connecting. (<b>Figure 3-28</b>)</li> <li data-bbox="336 1032 1240 1305">✓ If the <b>Yes</b> button was selected in the Bluetooth Manager Authentication window, the enter PIN windows appears. Enter a PIN (between 1 and 16 alpha numeric characters) in the <i>Enter PIN:</i> text box, and tap <b>OK</b>. The mobile computer sends the PIN request to the device for bonding. (<b>Figure 3-29</b>)</li> <li data-bbox="336 1317 1240 1498">✓ When prompted, the same PIN must be entered on the other device. When the PIN is entered correctly on the other device, the bonded icon  appears on the device list. (<b>Figure 3-30</b>)</li> </ul>

Table 3-17 Bluetooth Device Properties

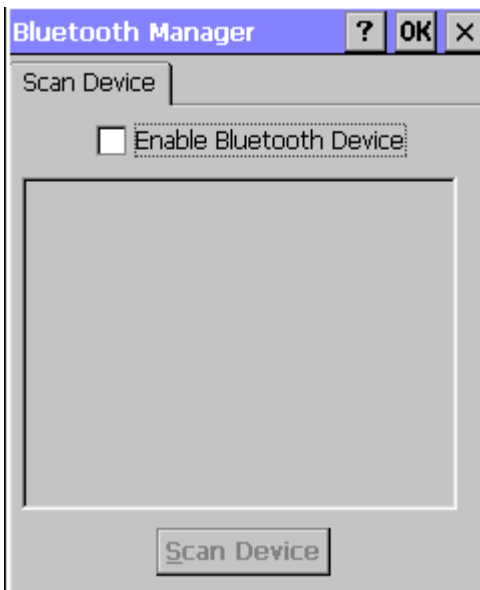


Figure 3-25 Bluetooth Manager Window

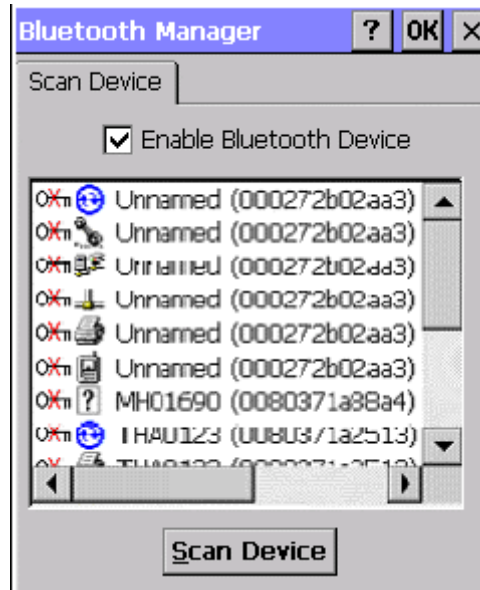


Figure 3-26 Bluetooth Manager Window



Figure 3-27 Bluetooth Error Window



Figure 3-28 Bluetooth Manager Window



Figure 3-29 Bluetooth Enter PIN Window

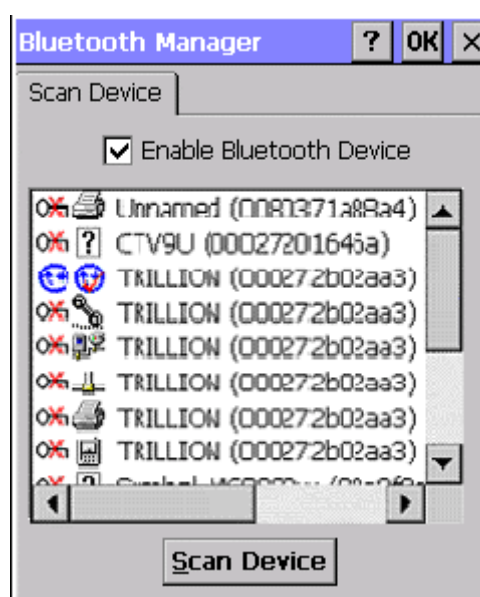


Figure 3-30 Bluetooth Manager Window