



## **Bluebox ASCII Output Spontaneous Mode**

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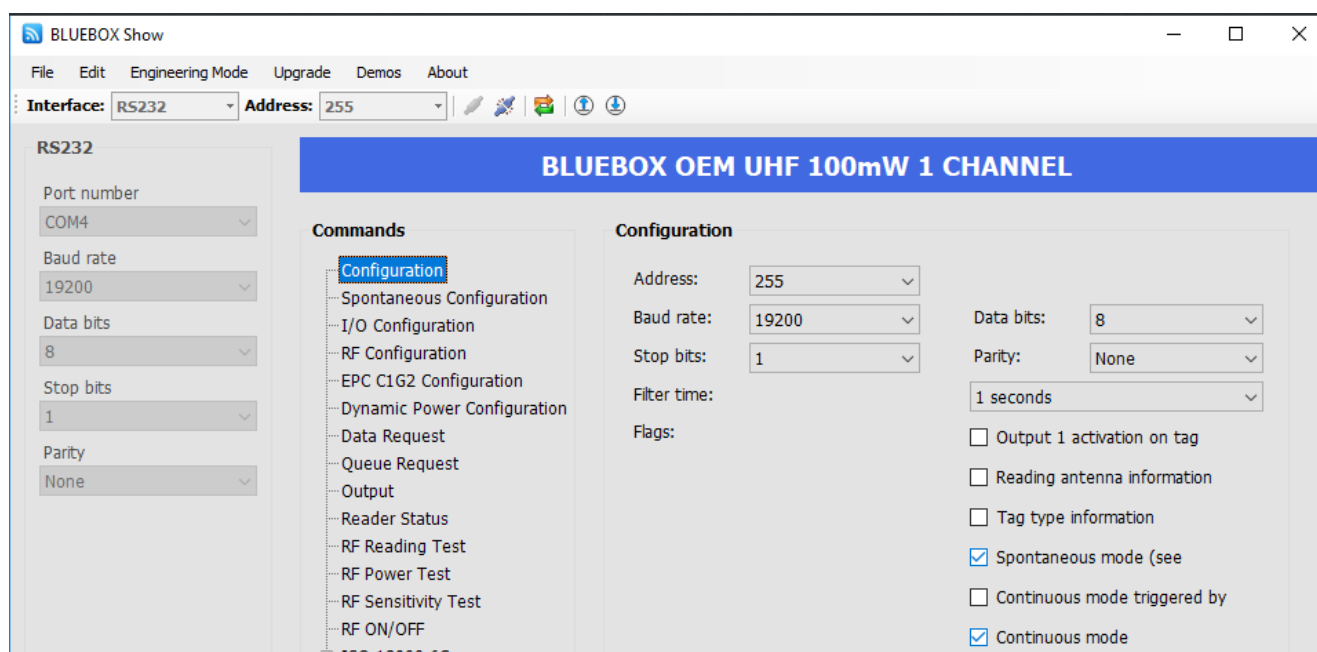
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## Contents

<b>1</b>	<b>Configuring the ASCII Output.....</b>	<b>3</b>
1.1	Switch ON Spontaneous Sending of Telegrams.....	3
1.2	Configure the Format of the Spontaneous Telegrams.....	4
1.3	Select Desired Data in „EPC C1G2 Configuration“ .....	5
<b>2</b>	<b>Accepting the Changed Settings with Reset.....</b>	<b>6</b>
<b>3</b>	<b>Example Output .....</b>	<b>6</b>
<b>4</b>	<b>Appendix: EPC Memory Bank .....</b>	<b>7</b>

## 1 Configuring the ASCII Output

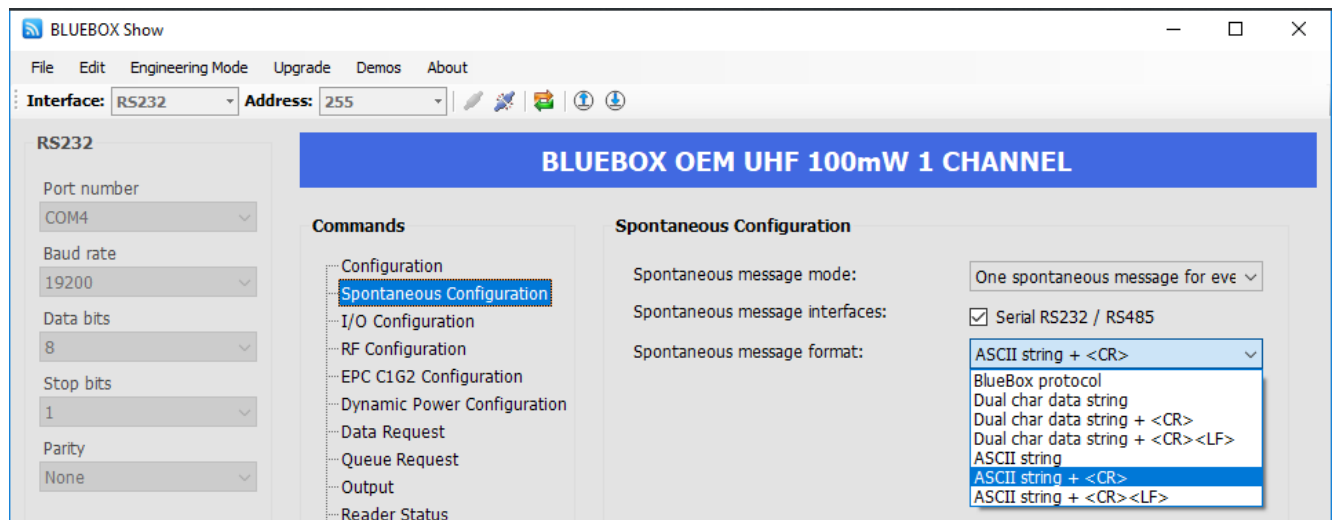
### 1.1 Switch ON Spontaneous Sending of Telegrams



Switch on the two operating modes “Spontaneous mode” (automatic recording of RFID data tags) and “Continuous mode” (automatic sending of telegrams of the recorded RFID data tags).

Confirm the settings by clicking the [ Write ] button.

## 1.2 Configure the Format of the Spontaneous Telegrams

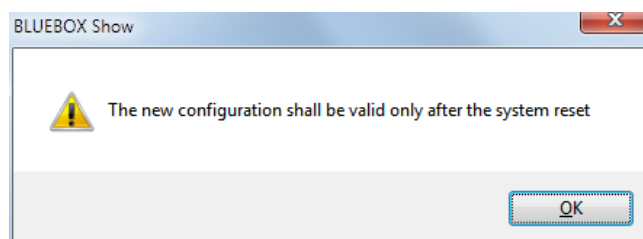


Select for the custom-specific spontaneous telegrams one of these settings:

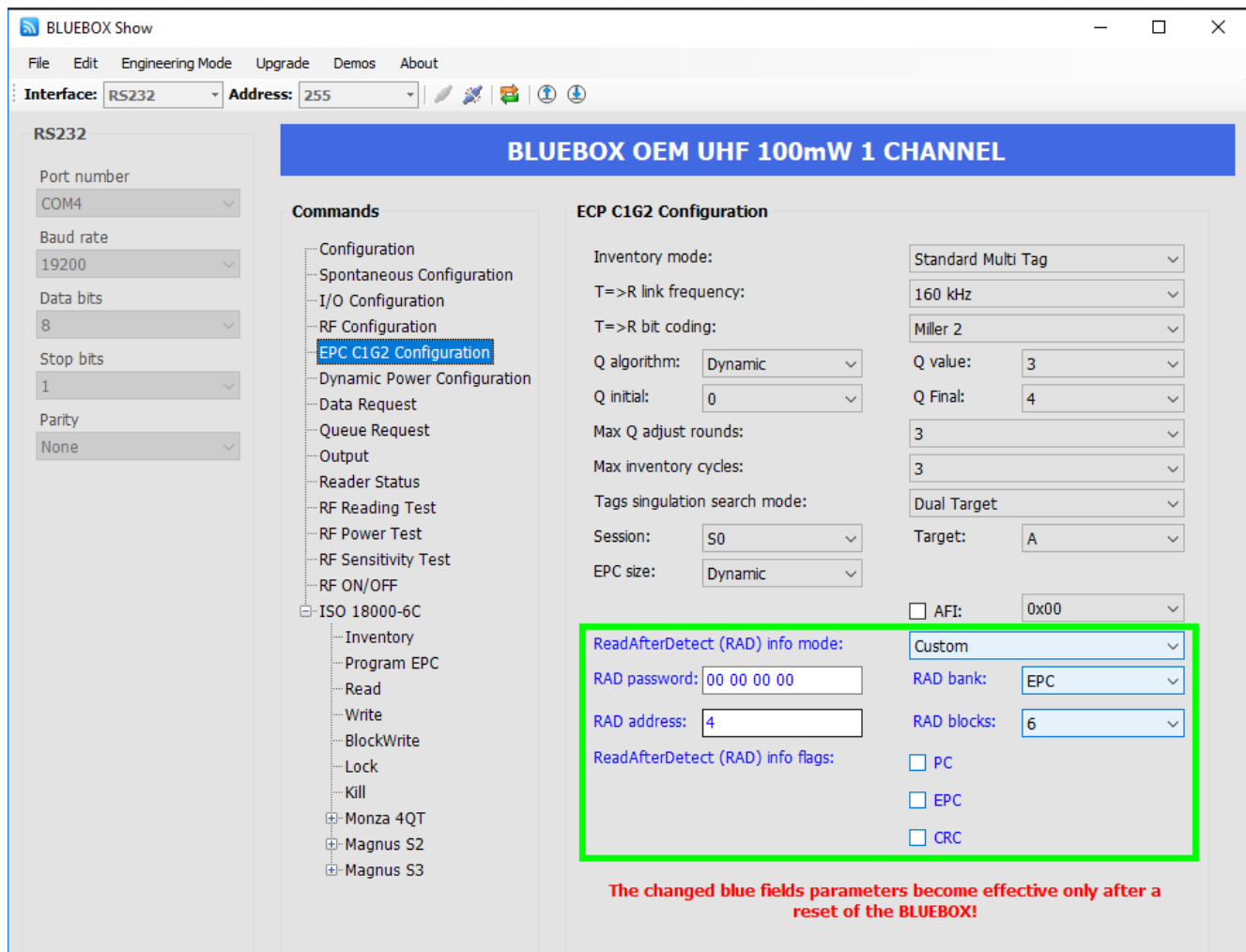
- ASCII string                      Send EPC data in ASCII
- ASCII string + <CR>              Send EPC data in ASCII, with trailing Carriage Return)
- ASCII string + <CR><LF>          Send EPC data in ASCII, with trailing Carriage Return + Line Feed

Confirm the settings by clicking the [ Write ] button.

You will now be informed that this setting is saved, but is only active after a restart (reset, warm start). You can trigger this restart at the end of the settings in the Bluebox Show test/demo software.



### 1.3 Select Desired Data in „EPC C1G2 Configuration“



If you leave the factory settings here, these EPC data fields are displayed one after the other:

1. PC (Protocol Control)
2. EPC (Electronic Product Code)
3. CRC (Cyclic Redundancy Check)

To receive only the EPC, please make the following changes:

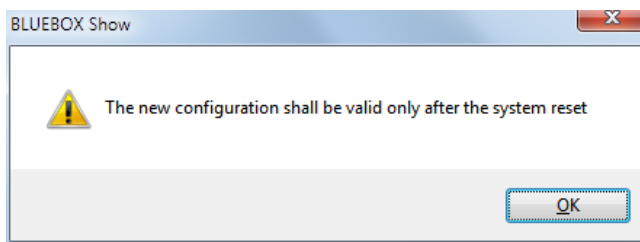
- Select "Custom" from the pull-down menu "ReadAfterDetect (RAD) info mode".
- Select "EPC" from the pull-down menu "RAD bank".
- In the pull-down menu "RAD blocks", select the length of the data from the EPC. 6 blocks = 12 bytes, length of the usual EPC.
- Type the value 4 into the text field "RAD address". Now the 4th byte is read out, i.e. the data fields CRC + PC are omitted.
- Deselect all entries in the checkboxes "ReadAfterDetect (RAD) info flags".

#### Notes

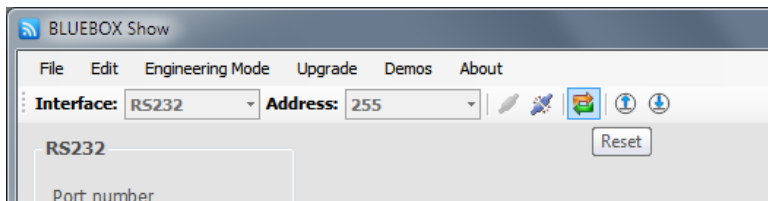
Please note that the value "RAD address" is a byte address. This address must always be an even number.

The value "RAD blocks" means memory blocks of 2 bytes each = 1 word.

You will now be informed that this setting is saved, but is only active after a restart (reset, warm start). You can trigger this restart at the end of the settings in the Bluebox Show test/demo software.

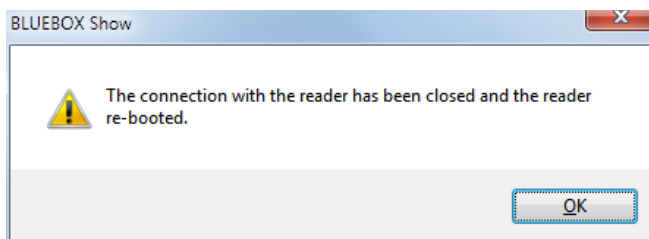


## 2 Accepting the Changed Settings with Reset



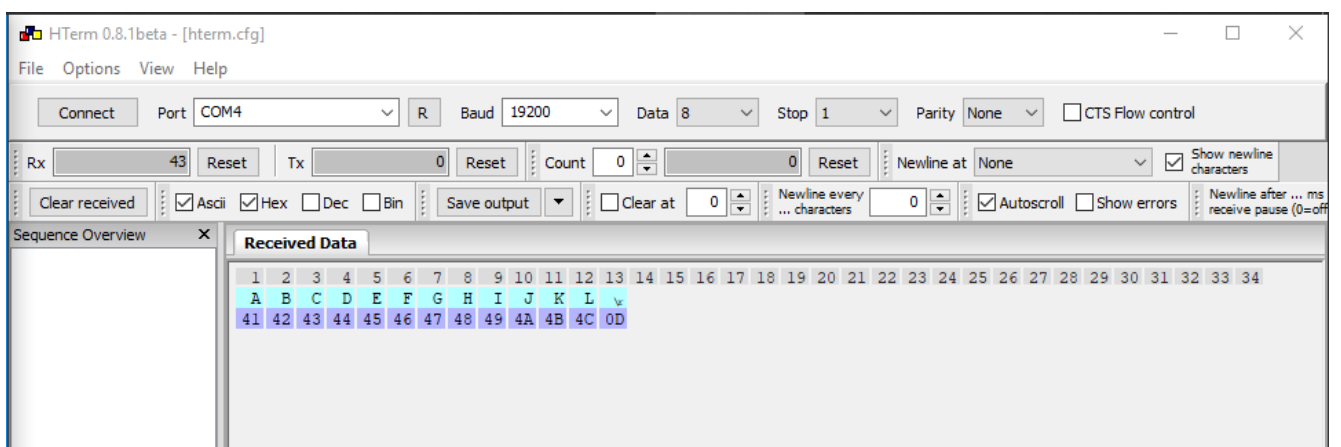
Select the “Reset” function from the toolbar.

After clicking on the tool, you will receive this message that the connection to the device is now terminated and the device is performing a warm start.



## 3 Example Output

Contents of the EPC memory bank: CRC.3000.4142.4344.4546.4748.494A.4B4C  
 Output: ABCDEFGHIJKL<CR>



## 4 Appendix: EPC Memory Bank

Byte Address	Contents
0	CRC (Checksum)
2	PC (Protocol Control, Configuration of EPCs)
4	EPC Bytes 1 + 2
6	EPC Bytes 3 + 4
8	EPC Bytes 5 + 6
10	EPC Bytes 7 + 8
12	EPC Bytes 9 + 10
14	EPC Bytes 11 + 12