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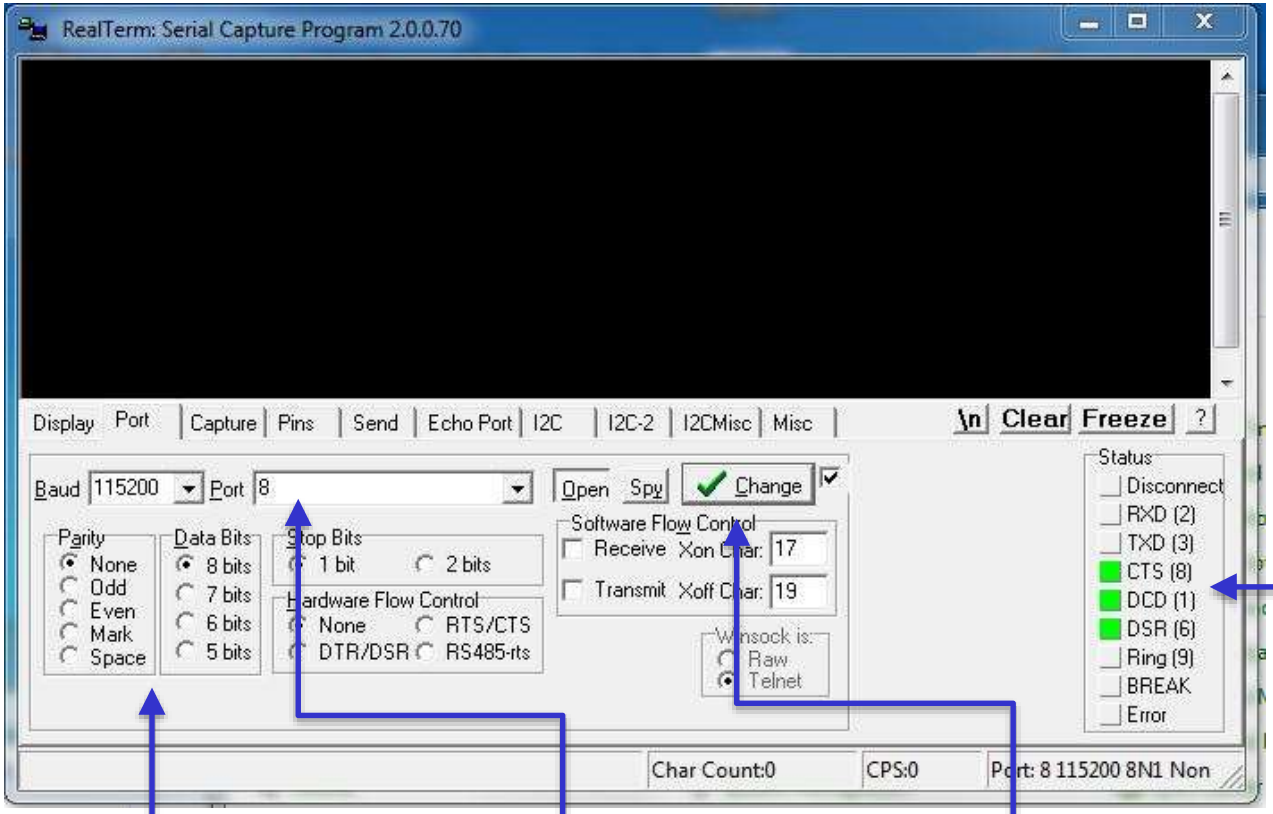
Tutorial:
Using RealTerm to Send and Receive PTCMD messages with DPR-100

2014-07-02

RealTerm 1: Configuring the COM Port



Here you can verify that the COM connection exists

Please configure like this

Select here the COM port assigned to DPR-100

Click here to change

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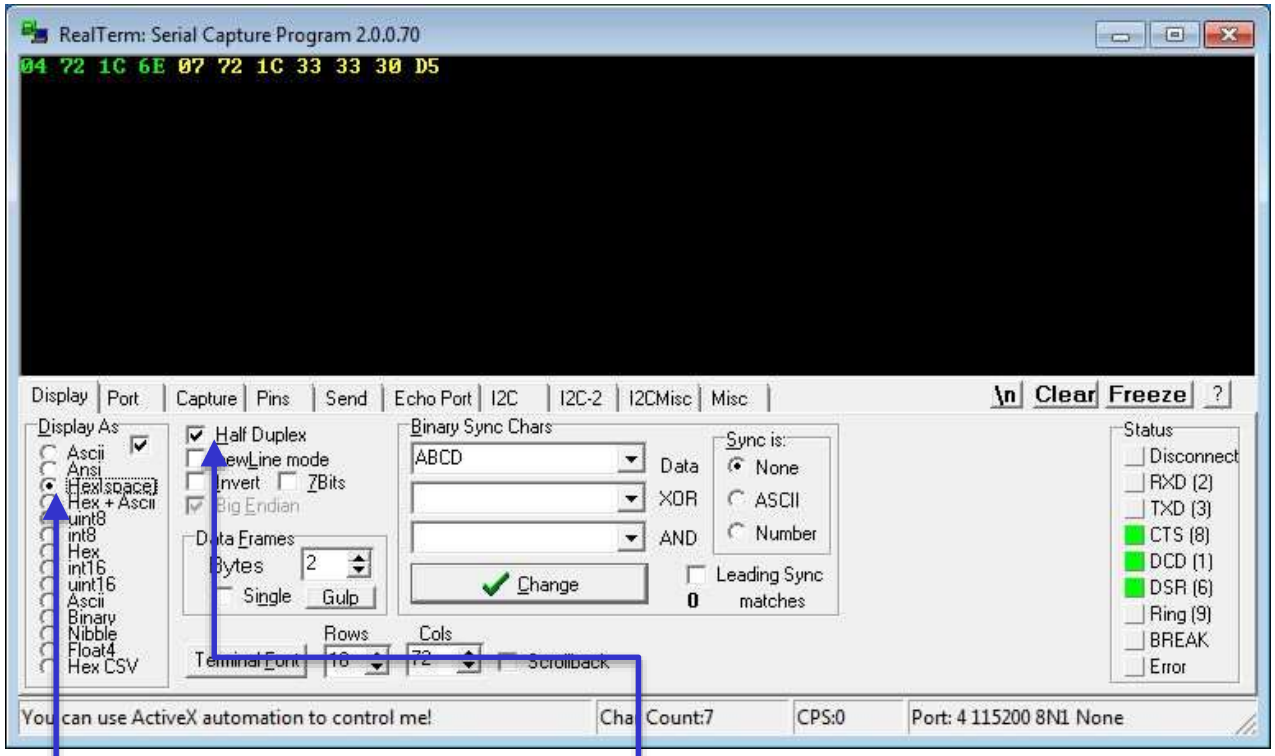
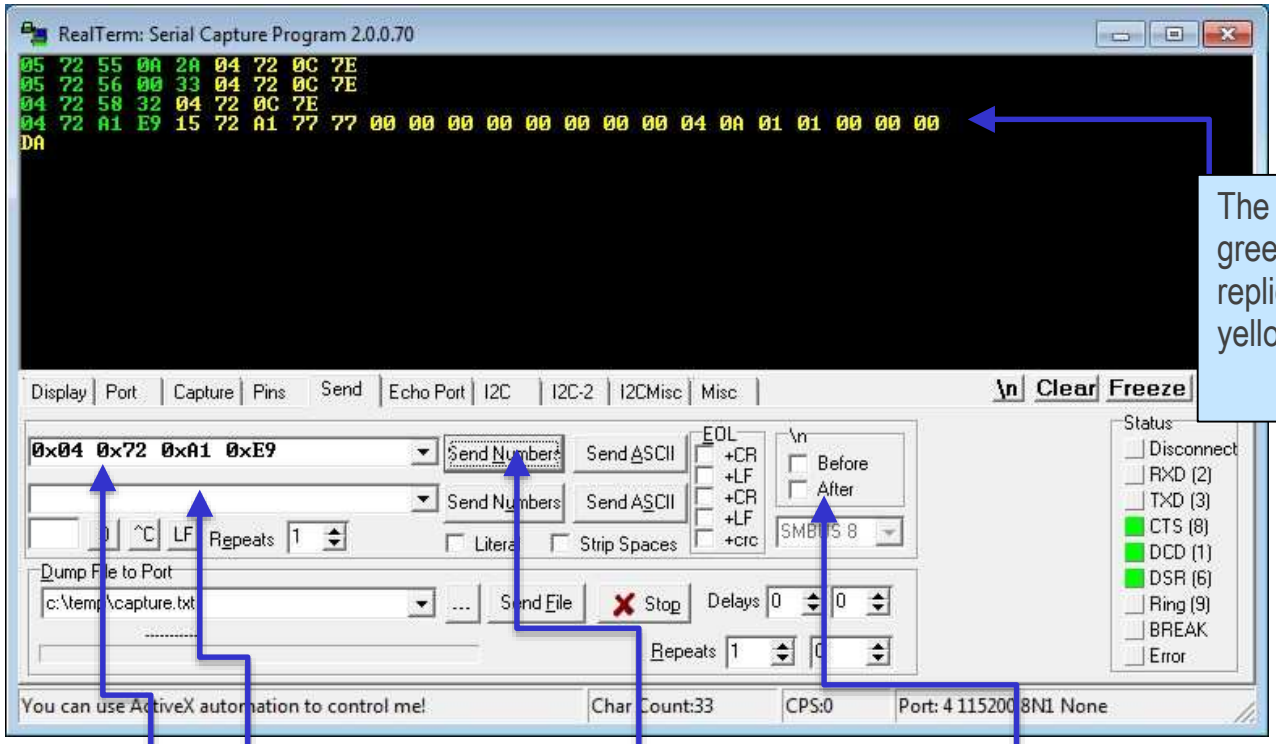
RealTerm 2: Configuring the Display



HEX + space is the best for your debugging

With Half Duplex you will see both data sent and received

RealTerm 3: Sending Characters



The characters sent are in green and the characters replied by DPR-100 are in yellow

You can type the command on these two lines or copy them from a predefined file.

Click to send.

For easier reading you can also make the tool display a new line before each message

PTCMD 1: Testing the Messaging

- An easy way of testing the connection is e.g. ask the firmware version number of DPR-100

  0x04 0x72 0x1C 0x6E ; PT_FW_VER

- The reply will be e.g. for version 3.3.0

  0x07 0x72 0x1C 0x33 0x33 0x30 0xD5

- There are two types of error messages <NAK>
  - Message syntax error, e.g. for a wrong checksum

    0x03 0x0B 0xF2
  - Error in requested data, e.g. If the requested information is not available

    0x04 0x72 0x0B 0x7F

PTCMD 2: Reading and Writing EDID

- Read EDID Content:

  0x07 0x72 0x16 0x00 0x00 0x0A 0x67
  ; PT_EDID_READ Segment 0, offset 0, read 10
- Reply:

  0E 72 16 00 FF FF FF FF FF FF 00 54 C7 55
  ; EDID Data:
  0x00 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00 0x54 0xC7

- Write EDID Content (Change serial # to 0x111):

  0x0B 0x72 0x17 0x00 0x0C 0x04 0x11 0x01 0x00 0x00 0x4A
  ; PT_EDID_WRITE Segment 0, offset 0x0C, write 4
  EDID Data: 0x11 0x01 0x00 0x00
- Reply:

  04 72 0C 7E ; <ACK>