VScom Serial Device Servers: I need to use a custom speed on your NetCom, can I do it?

The serial ports on the NetCom servers provide many more speed configurations as are offered for selection in typical programs. Especially when connecting
very special hardware there is always the question, whether
the requirements of the hardware are supported by the serial
ports. To get your answer quick just use the new Online Speed Calculator for VScom products.

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For checking yourself there is a formula to calculate the bitrates, which can be configured on serial ports. This is for serial ports based on UARTS 16C450 and compatible chips. Such are used in most products on the market.

Speed = (16*Bmax) / TCR / (CPR / 8) / Divisor, divide from left to right.

Speed

:

resulting bitrate (bit per seconds)

Bmax
:

Â maximum bitrate in 16C550 mode (bit per seconds)

TCR

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:
Â signal sample count

CPR

:
Â Prescaler

Divisor

:
Â a 16 bit Integer number

The Divisor always ranges from 1 to 65535.

These parameters have different allowed ranges or values on certain NetCom devices.

111/113 and 211

Â Â 411/413, 811/813 and 811/813RM Â Â

PRO and WLAN

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Bmax

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460800
Â
Bmax
Â 921600
Â
Bmax

921600

Â
TCR
16

Â
TCR
Â 16
Â
TCR

4 to 16

Â
CPR
8

Â
CPR

Â 8

Â
CPR

8 to 255

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You need to try parameter configurations to find your target bitrate as the result. A resulting bitrate is generally considered acceptable, if the deviation from the target bitrate is less than 3%.

For the NetCom Lite series the formula reduces to

Speed = Bmax / Divisor

Divisor = Bmax / Speed

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And here are instructions how to use the speed in Windows How to configure the NetCom for my baudrate? It is not available in the Device Manager.

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