

FAQ GMSplus How to Connect Serial Console with uCon

1. Introduction

- This procedure describes how to connect the serial console of a GMSplus to a computer.

2. Required Tools

- RS-232 Cable, straight



Modem Cable - Straight Cable DB9 to DB9

DTE Device (Computer)			DB9	DTE to DCE Connections	DCE Device (Modem)	DB9	
Pin#	DB9	RS-232 Signal Names		Signal Direction	Pin#	DB9	RS-232 Signal Names
#1		Carrier Detector (DCD)	CD	←	#1		Carrier Detector (DCD)
#2		Receive Data (Rx)	RD	←	#2		Receive Data (Rx)
#3		Transmit Data (Tx)	TD	→	#3		Transmit Data (Tx)
#4		Data Terminal Ready	DTR	→	#4		Data Terminal Ready
#5		Signal Ground/Common (SG)	GND	→	#5		Signal Ground/Common (SG)
#6		Data Set Ready	DSR	←	#6		Data Set Ready
#7		Request to Send	RTS	→	#7		Request to Send
#8		Clear to Send	CTS	←	#8		Clear to Send
#9		Ring Indicator	RI	←	#9		Ring Indicator
Soldered to DB9 Metal - Shield			FGND	→	Soldered to DB9 Metal - Shield		
					FGND		

- RS-232 to USB Adaptor (recommended ist Aten UC232A)



- Windows Computer with installed terminal software, recommended is uCon (<http://www.umonfw.com/ucon/>)
Any other serial port terminal software may work as well



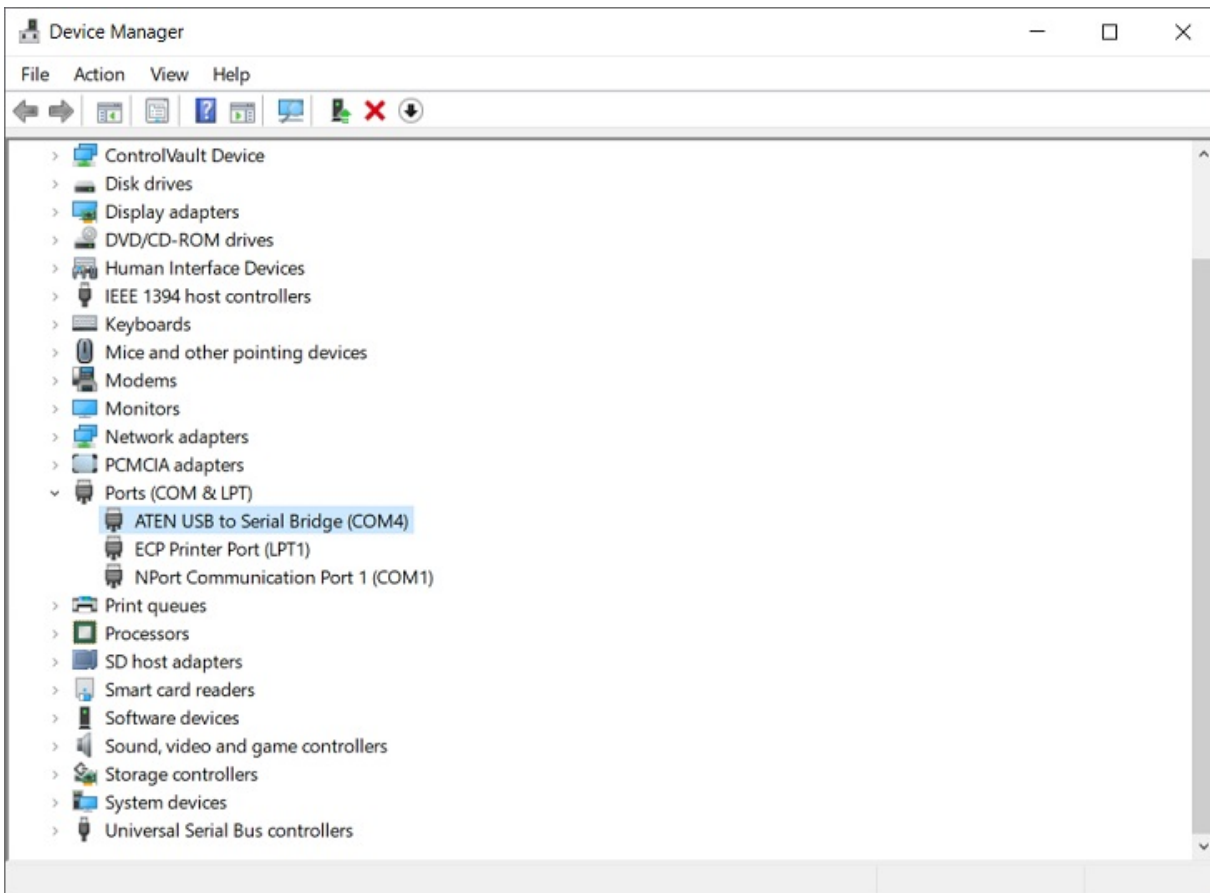
3. Connect GMSplus

- Connect the serial cable to the **CONSOLE** connector of your GMSplus



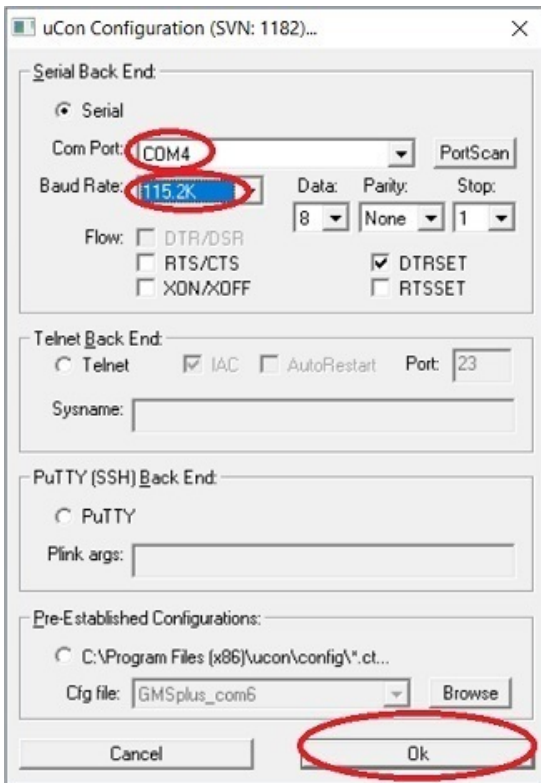
4. Find COM port in Windows

- In Windows under **Device Manager**-> **Ports (COM & LPT)**, your Aten UC232 appears as **ATEN USB to Serial Bridge**
- Remember the COM port of the ATEN USB to Serial Bridge
- If the device doesn't show or shows as **UNKNOWN** or appears under "Other Devices" with yellow exclamation mark, the correct driver may need to be installed: https://www.aten.com/global/en/supportcenter/info/downloads/?action=display_product&pid=575



5. Connect with uCon

- Turn on your GMSplus
- Start uCon terminal software
- Choose the COM port of your ATEN USB to Serial Bridge
- Choose baud rate **115.2K** from the dropdown
- Press **[OK]** to connect



6. Navigating the console

- If the startup process of the instrument is finished, you can press **[ENTER]** key on your keyboard
- The main menu will appear

GMSplus s/n 102833 version 21.12.29

Main menu:

C - Configuration

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M - Messages ->
S - Shell command
L - List firmware images
N - List network tunnels
X - Display errors (0) and warnings (0)
W - Clear errors and warnings
F - View/reset RTC trim values
T - File statistics
G - View RTC status
A - View Alarm status
P - View GPS information
H - Set RTC time
U - User request
R - Restart
Q - Quit
  
```

- Each menu point has a letter assigned
- Press the key of the menu you want to select (e.g. **[C]** to enter the configuration menu, press **[C]** again to edit current configuration)
- Always confirm your selection pressing **[ENTER]**

Main Menu

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A) Station description ..... GMSplus (6ch) - GeoSIG Ltd
B) Station code ..... GSGMS
C) Location description ..... Switzerland
D) Seismic network code ..... GS
E) Number of Channels ..... 3
F) Number of Output Streams ..... 0
G) Number of Trigger Sets ..... 2
H) Number of Preset Triggers ..... 0
I) Channel Parameters ..... ->
K) Trigger Parameters ..... ->
M) File Storage and Policy ..... ->
N) Communication Parameters ..... ->
O) Miscellaneous Parameters ..... ->
P) Station Location ..... ->
S) GeoSIG Options ..... ->
  
```

Select <A>...<S>. <Esc> to exit

- At the bottom of each sub-menu, further navigation options are listed

7. Save and apply configuration changes

- Press **[Esc]** to exit the configuration menu
- Press **[C]** to save the configuration as "current"
- In the main menu, press **[R]** to restart the instrument
- After the restart, the configuration changes are applied

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