FAQ GMS-xx How to Connect Serial Console with uCon

1. Introduction

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

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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)	CD
#2 Receive Data (Rx)	RD	←	#2 Receive Data (Rx)	RD
#3 Transmit Data (Tx)	TD	→	#3 Transmit Data (Tx)	TD
#4 Data Terminal Ready	DTR	→	#4 Data Terminal Ready	DTR
#5 Signal Ground/Common (SG)	GND	—	#5 Signal Ground/Common (SG)	GND
#6 Data Set Ready	DSR	←	#6 Data Set Ready	DSR
#7 Request to Send	RTS	→	#7 Request to Send	RTS
#8 Clear to Send	CTS	←	#8 Clear to Send	CTS
#9 Ring Indicator	RI	←	#9 Ring Indicator	RI
Soldered to DB9 Metal - Shield	FGND	—	Soldered to DB9 Metal - Shield	FGND

- RS-232 to USB Adaptor (recommended is 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

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3. Connect GMS-xx

- Connect the serial cable to the **CONSOLE** connetor of your GMS-xx

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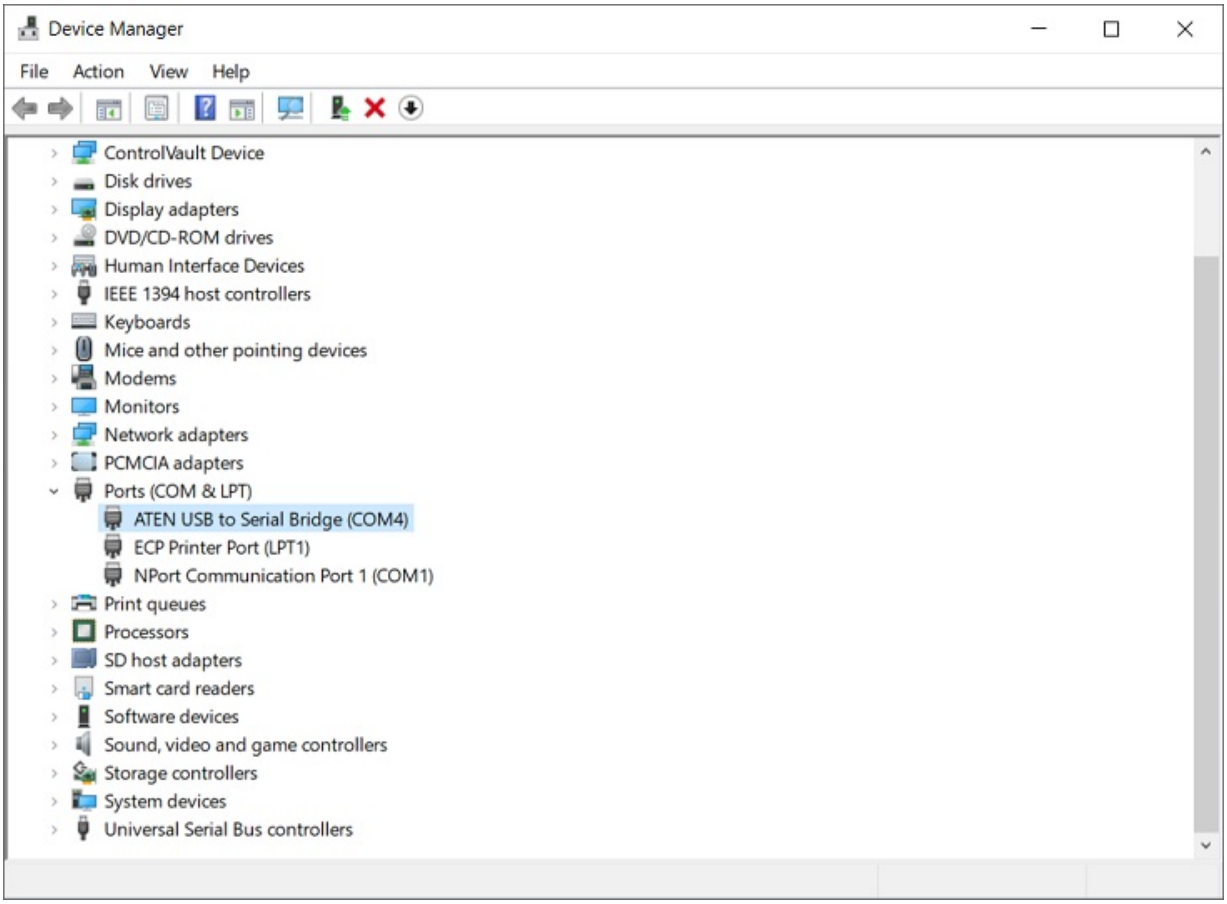
4. Find COM port in Windows

- 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



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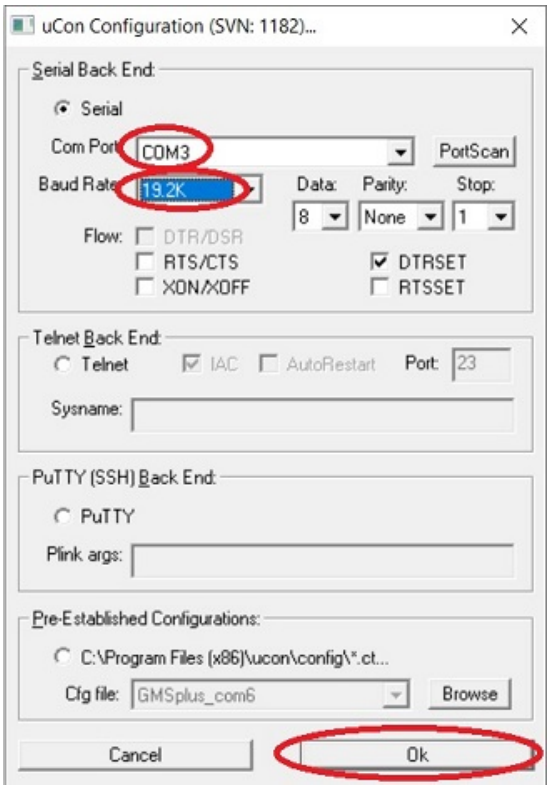
5. Connect with uCon

- Turn on your GMSplus
- Start uCon terminal software
- Choose the COM port of your ATEN USB to Serial Bridge
- Choose baud rate **19.2K** from the dropdown
- Press **[OK]** to connect



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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

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GMSplus s/n 102833 version 21.12.29
Main menu:
C - Configuration
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
  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
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- At the bottom of each sub-menu, further navigation options are listed

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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