

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	Connections	DCE Device (Modern)	089
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 (<u>http://www.umonfw.com/ucon/</u>) Any other serial port terminal software may work as well



3. Connect GMSplus

• Connect the serial cable to the CONSOLE connetor 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

🛃 Device Manager	<u></u> }	×
File Action View Help		
> 🖵 ControlVault Device		^
Disk drives		
> 🔙 Display adapters		
> 🔐 DVD/CD-ROM drives		
> 🖓 Human Interface Devices		
> 🦞 IEEE 1394 host controllers		
> 🔤 Keyboards		
Mice and other pointing devices		
> 📲 Modems		
> Monitors		
> 🕎 Network adapters		
> PCMCIA adapters		
✓		
TEN USB to Serial Bridge (COM4)		
ECP Printer Port (LPT1)		
Port Communication Port 1 (COM1)		
> Print queues		
Processors		
> B SD host adapters		
> 🗟 Smart card readers		
> Software devices		
> III Sound, video and game controllers		
> Storage controllers		
> Esstem devices		
> Universal Serial Bus controllers		~

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

uCon Configuration (SVN: 1182)	×
Serial Back End:	
Serial	
Com Port: CDM4 PortScan	
Baud Rate: 1115.2K Data: Parity: Stop:	
Flow: DTR/DSR	1
RTS/CTS CDTRSET	
I XUN/XUFF I HISSEI	
C Telnet Ind: IAC I AutoRestart Port: 23	
Sysname:	
PuTTY (SSH) <u>B</u> ack End:	_
O PUTTY	
Plink args:	
Pre-Established Configurations:	
C C:\Program Files (x86)\ucon\config\".ct	
Cfg file: GMSplus_com6	
Cancel Ok	2

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 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 - View GPS information Р 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-> 0) Miscellaneous Parameters-> Station Location-> P) 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 $[\bar{\textbf{R}}]$ to restart the instrument
- After the restart, the configuration changes are applied

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
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- F View/reset RTC trim values
- T File statistics G View RTC status
- A View Alarm status
- P View GPS information
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- U User request
- R Restart V Vuit