

FAQ GMSplus How to Check Firmware Version

1. Introduction

• This procedure describes how to check if the latest firmware is installed on your GMSplus.

2. Required Tools

- GMSplus you want to know the firmware version from
- Computer with access to GMSplus

3. Check GeoSIG website for the latest version

- On GeoSIG Website, under Support -> Downloads, you can find the latest firmware of GMSplus for download: <u>https://www.geosig.com/Downloads-pg37.aspx</u>
- The version number is indicated by a 3-digit code shown on the download link

Description	Important Notes and Instructions	Download
GMSPlus	 This container contains the standard instrument firmwares only for GMSplus series instruments. In case of project specific firmwares with an armdas version other than 21.xx.xx contact us for details. 	firmware r149
	 IMPORTANT Firmware releases "rootfs-gms-79" and lower must be upgraded in two steps: First to the release rootfs- gms-80 and then to the newest release. 	
	 Firmware releases "rootfs-gms-80" (instruments manufactured after September 2013) and higher can be upgraded directly to the newest release. 	

4. Check GMSplus Firmware Version

• The currently installed version can either be checked from GeoDAS (4.1), through the webinterface (4.2) or from GMSplus serial console (4.3)

4.1 Check from GeoDAS

• In GeoDAS window Stations: General Information, right-click on the station and choose More Information...



• Check the field **Firmware** and make sure that the first two digits correspond to the standard version **21.xx.xx**. If it shows other than **21.xx.xx**, contact GeoSIG support for information on the latest version for your instrument.

dSplus Status a	and Basic Informatic	n						
tation EC83	33	•	Serial number	102833	Status date and time Errors and Warnings	2023-03-18 15:14:15		
Linux 0 Bootloader 2	GeoSIG/ARM rootfs-gr	ns-149 Linux gm RTC	s 2.6.39.4-r25 80.02.03		 Event storage is full Event storage is used Incorrect parameter of 	d for more than 90% or another configuration error		
Firmwore	21.12.29	DSP	51.03.06		 An error in a system of Error opening a file Error deleting a file 	call		
Files and Mem	ory				An error in a filesyste Beyond the limit of a t	m request firmware resource		
Total events	109	Queued ev	vents 0		 Memory allocation er Flash access error 	rror (fatal)		
Last event	2023-02-22 17:14:08	}			Error processing a user request			
Oldest data	2023-03-17 13:05:5	3			 Error allocating or configuring a hardware n 			
Total space	60629.4 MB	Free space	36960.5 MB		 Generic DSP error (c DSP buffer overflow Generic RTC error (c 	ommunication or hardware) ommunication or hardware)		

• Check the field **Linux** for the 3-digit code of the currently installed version. The higher the number, the newer the version. Compare it with the 3-digit code from the GeoSIG website as shown under **3**. to see if the latest version is installed.

tion EC	833	-	Serial number	102833	Status date and time	2023-03-18 15:14:15		
irmware — inux	GeoSIG/ARM rootfs-(ns-149 Lir x gm	ns 2.6.39.4-r25	- [Errors and Warnings			
lootloader	21.12.29	RTC	80.02.03		 Event storage is user Incorrect parameter of An error in a system of 	d for more than 90% or another configuration error call		
irmware	21.12.29	DSP	51.03.06		 Error opening a file Error deleting a file 			
iles and Me	mory				 An error in a filesyste Beyond the limit of a t 	m request firmware resource		
Total events	109	Queued e	vents 0		 Memory allocation er Flash access error 	rror (fatal)		
ast event	2023-02-22 17:14:	08			Error processing a user request			
Oldest data	2023-03-17 13:05	2023-03-17 13:05:53			 Error uploading file(s) to a server Error allocating or configuring a hardware res 			
otal space	60629.4 MB	Free space	36960.5 MB		 Generic DSP error (c DSP buffer overflow 	ommunication or hardware)		

4.2 Check from Webinterface

• Open your webbrowser, enter the IP address of your GMSplus and login as admin (default password 123456)

GeoSIG Ltd Web Interface	+	~	-	×
← → C ▲ Not secure	2.168.100.12	8 \$	*	:
	GeoSiG swiss made to measure Please fill in your Credentials: Username: admin Password: login			
•				•

• Choose tab Status and Maintenance -> Software

Home	Configuration	Status and Mainter	nance	Data	a Explorer	Help	Logout	
Errors an	nd Warnings	Recording Status	Hardw	vare	Software	Maintenance		
	Download SOH Information as File							

• Check **Firmware Version** and make sure that the first two digits correspond to the standard version **21.xx.xx**. If it shows other than **21.xx.xx**, contact GeoSIG support for information on the latest version for your instrument.

Software Versions		
Webinterface Version:	1.13	
Firmware Version:	21.12.29	
Bootloader Version:	21.12.29	
Operating System Version:	GeoSIG/ARM rootfs-gms-149 Linux gms 2.6.39.4-r25	
DSP Version:	51.03.06	
Real Time Clock Version:	80.02.03	
Software Upgrade		
Choose file No file chosen		
Upload Software		

• Check **Operating System Version** for the 3-digit code of the currently installed version. The higher the number, the newer the version. Compare it with the 3-digit code from the GeoSIG website as shown under **3.** to see if the latest version is installed.

Software Versions		
Webinterface Version:	1.13	
Firmware Version:	21.12.29	
Bootloader Version:	21.12.29	
Operating System Version:	GeoSIG/ARM rootfs-gm -1491 nux gms 2.6.39.4-r25	
DSP Version:	51.03.06	
Real Time Clock Version:	80.02.03	
Software Upgrade		
Choose file No file chosen		
Upload Software		

4.3 Check from Serial Console

- Connect to the serial console of your GMSplus
 Select [L] to list firmware images

🐮 uC	Con Edit View Confi	ig Logging Scripts	Servers Tra	insfer uMon	Help	-		
			1 ?					
F		F4	F5	F6	F7	F8	F9	
8)1B3	85	B7	89	B11	B13	B15	_
8	32	B6	B8	B10	B12	B14	B16	
U - N - V - V - F - G - H - H - R - Q -	Configuration Messages -> Shell command List firmware Display error Clear errors View/reset RT File statisti View RTC stat View GPS info Set RTC time User request Restart Quit	images conners s (0) and warni and warnings C trim values cs cs cs cs cs cs cs cs cs cs cs cs cs	ngs (Ø)					~
PLINK	192.168.100.12	TELNET SRVR OFF	MYIP: 19	2.168.100.11	ROW/COL: 22/81	XFER: Id	le	-

• Check **Main Firmware** and make sure that the first two digits correspond to the standard version **21.xx.xx**. If it shows other than **21.xx.xx**, contact GeoSIG support for information on the latest version for your instrument.

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			?					
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B1	B3	85	B7	B9	B11	B13		B15
B2	B4	B6	B8	B10	B12	B14		B16
P - Ulew GH H - Set RT(U - User re R - Restart Q - Quit 1	'S INFORMAT C time equest	100						
N Image Typ)e	Size	Status	Firmw	are Load	l Date a	nd Time	
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1 DSP Firm	are	103491	Valid *	51.03	.06 2022-0	17-14 1	3:07:28	
2 DSP Firm	lare	103491	Valid *	51.03	.05 2019-1		4:06:40	
2 RTC Firm	are	84337	Valid	80.02	.02 2015-0	39-04 10	5:18:09	
Actual firm	ware versi	ons						
Linux image Main firmwa RTC firmwar DSP firmwar	e	21.12.29 51.03.06	ootfs-gms-1	49 Linux gm	15 2.6.39.4-	r25		
								•
PLINK 192.168.1	00.12	ELNET SRVR OFF	MYIP: 192	.168.100.11	ROW/COL: 27/8	5 XFER:	Idle	

• Check Linux image for the 3-digit code of the currently installed version. The higher the number, the newer the version. Compare it with the 3-digit code from the GeoSIG website as shown under **3**. to see if the latest version is installed.

🐮 uCon					-		\times
File Edit View Config	g Logging Scripts	Servers Transfe	er uMon Help				
		1					
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	·	B7	B9	B11	B13	B1	5
B2B4	B6	B8	B10	B12	B14	B16	6
H - Set RTC time U - User request R - Restart Q - Quit 1							
N Image Type	Size	Status	Firmwa	re Load I	Date and T	ime	
1 Main Firmware 2 Main Firmware 1 Current Config 2 Default Config 1 DSP Firmware 2 DSP Firmware 2 RTC Firmware 2 RTC Firmware Actual firmware very Main firmware RTC firmware	2732912 2803688 35212 36533 103491 103491 83297 84337 rsions GeoSIG/ARM rc 21.12.29 80.02.03 rf or or	Valid * Valid * Valid * Valid * Valid * Valid Valid * Valid * Valid *	21.12. 21.12. 51.03. 51.03. 80.02. 80.02.	29 2022-07 21 2008-01 2023-03 12 2016-02 06 2022-07 05 2019-12 03 2019-12 02 2015-09 	-14 13:07 -01 00:01 -18 18:22 -29 11:23 -14 13:07 -10 14:06 -04 16:18 -04 16:18	123 102 143 153 128 149 149 149 149	
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