

Technical Note

Survey/GIS

Date: December 15, 2005

Product: GNSS Solutions V2.0 / ProMark 3 V1.0

Subject: ProMark3 Data Downloading: Installation & Operation

A. Important Notes:

- ProMark3 is an "access-restricted" platform: direct USB connection with Active-Sync will not work.
- GNSS Solutions require a dedicated driver to communicate with ProMark3 on a USB port. Therefore the communication between the unit and the office software is seen as "via cable" rather than "USB."
- The USB driver will be assigned to one of the PC USB ports. Always be sure to reuse the same port.
- Communication is established between GNSS Solutions and ProMark3 application. Be sure to have the ProMark3 application running and connect the unit to the PC <u>before</u> launching **Download**.

B. GNSS Solutions Installation

- 1. Insert CD
- 2. Select your language
- 3. Select **Install GNSS Solutions...** (See screen below)
- 4. Follow the InstallShield wizard. We recommend you accept the default settings



Note: GNSS Solutions replaces GNSS Studio. If you already have GNSS Studio installed on your PC, selecting "Install GNSS Solutions..." will guide you to first



uninstall the older program. You then will need to select "Install GNSS Solutions..." a second time.

C. USB driver Installation

- 5. Turn on your ProMark3
- 6. Connect the unit to your PC using the USB cable supplied with the unit
- 7. Windows will inform you that a new USB device was found and guide you through its installation. We recommend you select the automatic detection on the CD.
- 8. Windows will display the drivers found on the CD. Select the one corresponding to the ProMark3.

Found New Hardware Wizard									
Please select the best match for your hardware from the list below.									
		ATMEL	AT91 USB serial emulation	n					
	1	Version	Manufacturer	Location					
	on 5	5.0.2157.0	ATMEL CORPORATION	d:\usb driver\promark\at91_u	sbser.inf				
	on 5	5.0.2157.0	ATMEL CORPORATION	d:\mmoffice2_76\disk1\at91_	usbser.inf				
	<				>				
This driver is not digitally signed! Iell me why driver signing is important									
				< <u>B</u> ack <u>N</u> ext>	Cancel				

9. The driver is not signed by Thales, so click **Continue Anyway**



D. USB port identification

10. Disconnect ProMark3's USB cable



- 11. Launch **Download** from the Windows Task bar on the PC: **Start > Programs > GNSS Solutions > Tools > Download**
- 12. Select **File > Connect > Receiver > Connect via cable**.
- 13. Make a note of all the COM ports identified by Download



- 14. Close Download
- 15. Turn on the ProMark3 and connect it to the PC using the USB cable (on the same USB port as in the previous steps)
- 16. Relaunch **Download** from the Windows Task bar on the PC: **Start > Programs > GNSS Solutions > Tools > Download**
- 17. Select **File > Connect > Receiver > Connect via cable**
- 18. List all the COM ports previously identified by **Download**. There should be a new port in addition to those listed in Step 13. This is the port used by **Download**

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E. Connection through USB port

- 19. Turn on your ProMark3 unit
- 20. Launch the unit's Surveying application
- 21. Connect the unit to your PC using the USB cable supplied with the unit. Use the same USB port on your PC that you previously used
- 22. Launch **Download** from the Windows Task bar on your PC: **Start > Programs > GNSS Solutions > Tools > Download**
- 23. Select **File > Connect > Receiver > Connect via cable**
- 24. Select the COM port identified in Step 18
- 25. Download will list all the files in your ProMark3 unit



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F. USB port agreement

There sometimes is a difference between the USB port identified by **Download** and the one memorized by Windows. To confirm that the proper port is used do the following:

- 26. Turn on your ProMark3 unit
- 27. Connect the unit to your PC using the USB cable supplied with the unit. Use the same USB port as previously on your PC
- 28. In the Control Panel, select **System > Hardware > Device Manager**





29. Click Modems > ATMEL AT91 USB Serial simulation



30. Right-click and select Properties



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31. (Left) click Advanced > Advanced Port Settings

- 32. Verify that the COM port number corresponds to the one suggested by **Download**. If not adjust accordingly
- 33. Adjust the **Receive** and **Transmit** buffer settings as shown below:

A	Advanced Settings for COM3						
	Use FIFD buffers (requires 16550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance. Receive Buffer: Low (1)	OK Cancel Defaults					
	COM Port Number: COM3						

34. If the ProMark3 unit is not powered on, or if its **Surveying** application is not running, there will be a connection error:





G. Downloading ProMark3 Data Using MobileMapper Transfer (MobileMapper Office's Download Utility)

- Launch MobileMapper Transfer from the Windows Task bar on your PC: Start > Programs > MobileMapper Office > MobileMapper Transfer. If MobileMapper Office is already running, you may click File > Download from GPS)
- 2. Select **File > Connect > GPS Device via cable** sad. MobileMapper Transfer will automatically detect the COM port used by the ProMark3's USB cable and list the files on your ProMark3's SD card in the left pane
- 3. On the right pane, browse to the target directory you wish to transfer the files into
- 4. On the left pane, click the file(s) you wish to download and drag them over to the right pane



