USB Driver Setup Guide

USB GPS Receiver

There is a small bug between Microsoft XP and Prolific USB driver.

Please plug in the USB GPS AFTER install the USB driver.

Also, plug in the USB GPS AFTER the computer completed the boosting.

If you plug in the USB GPS when the computer boosting, the computer will assume the USB GPS as a USB mouse.

As a result, the mouse cursor will moving around.

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A. Introduction of GPS USB Driver Files

The USB GPS driver group consists of 6 files.

Files Name	Description of Specific Property
DRemover98_2K.exe	Type: Application
	This execution file removes
	GPS USB driver from the PC.
Serwpl.inf	Type: Setup Information
	This file provides major setup
	information.
Win2K\ser2pl.sys	Type: System File
	This file provides Windows 2000
	and Windows XP hardware specific
	interface.
Win98_ME\ser9pl.sys	Type: System File
	This file provides Windows 98 and
	Windows Millennium hardware
	specific interface.
Win98_ME\serspl.inf	Type: Setup Information
	This file provides Windows 98 and
	Windows Millennium setup
	information
Win98_ME\serspl.vxd	Type: Virtual Device Driver
	This file is virtual device driver.

📥 Gps							- D ×
Elle Edit View	Go Favorites	Help					19
Back Forwar	• 🖬	X. Cut	Copy	Paste) Undo	Delete	Propertie
Address DE:\USB.	Driver						
C Gps	Win2K_XP	Win98_ME	DRemo	y over9			
Select an item to view its description.	Serwpl						
4 object(s)		_			🛄 My Cor	nputer	li

Figure 1: Screen of GPS USB Driver Group



Figure 2: Screen of GPS USB Driver Win 2000 and Win XP

System File

🔁 Win98_ME						- D ×
<u>File Edit View Go</u>	F <u>a</u> vorites <u>H</u> el	þ				- 19
Back Forward	Up		Paste	노) Undo	Delete	Propertie
Address E:\USB_Drive	r\Win98_ME					
Win98_ME Serspl.vxd Virtual device driver Modified: 5/29/02 6:25 PM Size: 27KB	SER9PL sys	Sempl	Serspl.ved			
1 object(s) selected		26.0KB	📑 Му Со	mputer		10

Figure 3:

Screen of GPS USB Driver Win 98 and Win ME Group

B.Windows 98 Interface

1. Install GPS USB Driver

Before the installation of GPS USB driver, there are three procedures required.

The first thing is to turn on PC in the Windows environment. The second thing is to copy USB driver into HDD. The third thing is to plug the GPS receiver into the USB port of PC and then follow the installation guide.

Step 1:

Click the "Next" button



Figure 4:

Step 2:

Select "Automatically" and click the "Next" button



Figure 5:



Step 3:

Specific driver location and click the "Next"button

Add New Hardware W	izard
	Windows will now search hard diek driver and specific location, press Next, begin search. Floppy CD-ROM Microsoft Windows Update Specific Location DA3PS Browse
	< Back Neut > Cancel

١.

Figure 6:



Step 4:

Click the "Next"button



Figure 7:

Step 5:

Click the "Finish"button



Figure 8:

2. Check Enable COM Port Number

After you install GPS USB driver, you should know which COM port is available, and check enabled COM port number.

You need to know the COM port assignment for the GPS receiver, when configuring map or chart software. Please notice that this remark is very important; if not configured properly, the mapping software will not communicate with the GPS receiver.

To check your assigned COM port for the GPS receiver, please follow the instructions below.

Step 1:

Check enabled COM port number by double-clicking the icon show in Figure-9, and then a dialog window shown in Figure-10 will be pop up.



My Computer Figure 9: My Computer Icon

Step 2:

Double-click the "Control Panel" icon



Figure 10:

My Computer Screen

Step 3:

Double-click the "System" icon



Figure 11:

Control Panel Screen

Step 4:

Press"Device Manager" button

System Properties	<u>? ×</u>
General Device Manager	fardware Profiles Performance
	System Microsoft Windows 96 4.10.1998 Registered to: Mark T sai EMT
	79878-335-0188506-04480
	GenuineIntel Penilum(t) II Processor Intel MMX(TM) Technology 128.0MB RAM

Figure 12:

Step 5:

Slect "USB to Serial Port" (COM3) and click "Propertes"

View devices by type View devices by connection	stem Pr	operties Device Mar	hager Hardware	Profiles Perform	ance]	?
Communications Port (CDM2) USB to/serial Port (CDM3)		w devices by mouter CDROM Disk drives Display ad Floppy disb Hard disk Keyboard Mouse Network a Otho Porty (CDN 	bype C V poters i controllers controllers ces t & LPT micetions Port (D	iew devices by <u>co</u>	nnection	×
Properties Refresh Remove Print	Pro	Comm USB t Sound, vid	inications Port (C) o Serial Port (CO) eo and game cor Refresh	OM2) 13) Arollers R <u>e</u> move	Prigt	-

Figure 13:



Step 6:

Browse COM3 properties



Figure 14:

3. Remove GPS USB Driver

If you want to update the USB driver, you should remove existing driver and install new one.

Step 1:

Remove GPS USB driver by double-clicking the icon show in Figure-15. A dialog window shown in Figure-16 will be pop up.



Figure 15:

GPS USB Driver Remove Icon

Step 2:

Click "OK" button



Figure 16: Remove Driver Screen

Step 3: Click "Yes"



Figure 17: Driver Remove Warning Screen

C. Windows XP Interface

1. Install GPS USB Driver

Before the installation of GPS USB driver, there are three procedures required.

The first thing is to turn on PC in the Windows environment. The second thing is to copy USB driver into HDD. The third thing is to plug the GPS receiver into the USB port of PC and then follow the installation guide.

Step 1:

Select "Install from a list or specific location (Advanced)"



Figure 18:

Win XP Automatic Installation Driver Screen

Step 2: Select "Include this location in the search" OR "Browse" to specific GPS USB driver location

Please ch	oose your search and installation options.
01M	ch for the best driver in these locations.
Use	The sheel boxes below to limit or expand the default search, which includes local and removable media. The best drives found will be installed.
1	Search removable media (Roppy, CD-ROM)
1	Include this location in the search:
	E:NUS8_Driver Browse
Olo	th search. I will choose the driver to install.
Che	ose this option to select the device driver from a list. Windows does not guarantee t driver you choose will be the best match for your hardware.

Figure 19: Win XP Automatic Installation Driver Screen

Step 3: Click "Continue Anyway" button



Figure 20: Win XP Automatic Installation Driver Screen

Step 4:

Finish screen



Figure 21:

Win XP Automatic Installation Driver Screen

Step 3:

Click "Continue Anyway" button



Figure 22:



2. Check Enable COM Port Number

After you install GPS USB driver, you should know which COM port is available, and check enabled COM port number.

You need to know the COM port assignment for the GPS receiver, when configuring map or chart software. Please notice that this remark is very important; if not confingured properly, the mapping software will not communicate with the GPS receiver.

TO check your assigned COM port for the GPS receiver, please follow the instructions below.

Step 1:

Check enabled COM port number by clicking "Start" → clicking "Control Panel" → double-clicking "System" icon

Step 2:

Select "Hardware"



Figure 23:

Step 3:

Select "Device Manager"



Figure 24:

Step 4:

Select Ports (COM&LPT)



Figure

25: Device Manager Screen

Step 5:

Select COM4



Figure 26:

Device Manager Screen

Step 6:

Select "Driver"

olific (General	JSB to Serial B	ridge (COM4) Properties	2
3	Prolific USB-to-S	erial Bridge (COM4)	
	Device type:	Ports (COM & LPT)	
	Manufacturer:	Ptolitic Technology Inc.	
	Location	USB Device	
start	the troubleshooter.	ne wen ene device, click. Houdeshook v	~
		Iroubleshoot	
Device	usage:		
Use th	is device (enable)		~
			Count

Figure 27:

USB-to-Serial Bridge Screen

Step 7:

Browse	COM4	properties
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rolific U	JSB to Serial	Bridge (COM4) Properties 🛛 🛛 🖸
General	Port Settings	Driver
3	Pholific USB-to-	Serial Bridge (COM4)
	Driver Provider	Prolific
	Driver Date:	5/31/2001
	Driver Version:	1.30.7
	Digital Signer:	Not digitally signed
Dav	er Detait	To view details about the driver files.
<u>B</u> oll	Back Driver	If the device fails after updating the driver, roll back to the previously installed driver.
	Ininstal	To uninstall the driver (Advanced).
		OK. Cancel

Figure 28:

USB-to-Serial Bridge Properties Screen

3 Remove GPS USB Driver

If you want to update the USB driver, you should remove existing driver and install new one.

Step 1:

Remove GPS USB driver by double-clicking the icon show in Figure-29. A dialog window shown in Figure-30 will be pop up.



Figure 29:

GPS USB Driver remove icon



Figure 30:

Remove Driver Screen

Step 3:

Click "Yes" button



Figure 31:

Driver Remove Warning Screen

D. Change COM Port Number Application Program

If the notebook assigns COM number to COM5, then can to execute SetCOM.exe for COM number change.

Step 1:

For change COM port number assign by double-clicking the icon show in Figure-32, and then small icon shown in Figure-34 will be pop up.



Figure 34:

Start bar on the right-below corner of screen



Step 2:

by clicking the icon show in Figure-34. a dialog window shown in Figure-35 will be pop up.

Device Description		Port	Change to
○ 通訊連接埠 (COM1)	at	COM1	C COMI C COM
○ 通訊連接埠 (COM2)	at	COM2	0.0000 0.0000
C USB to Serial Port (COM3)	at	COM3	COME COME
C None	at	None	C COM3 C COM
C None	at	None	0.000
C None	at	None	CCUM4 CCUM
C None	at	None	·
None	at	None	Set
C None	at	None	Ummerene
None	at	None	Exit

Figure 35:

COM port number change screec

Step 3:

for example change COM3 become COM4, first Click COM3 and COM4 then Click "Set" button

Device Description		Port	Change to
○ 通訊連接埠 (COM1)	at	COM1	C COM1 C COM
○ 通訊連接埠 (COM2)	at	COM2	
 USB to Serial Port (COM3) 	at	COM3	COM2 COM
C None	at	None	C COMB C COM
C None	at	None	
C None	at	None	· COMA COM
C None	at	None	
None	at	None	Set
C None	at	None	-
C None	at	None	Exit

Figure 36:

COM port number change screec



E. Important Remarks

- If your system is Windows Millennium, please refer to Windows 98 installation guide. If your system is Windows 2000, please refer to Windows XP installation guide.
- If you follow the steps but the GPS receiver doesn't work, please try to unplug the GPS receiver from the USB port, wait for 5~8 seconds, and re-plug the GPS receiver into your PC.
- 3. Occasionally the mouse cursor does not work properly when you run the Win2000 and Win XP, and this situation is owing to Win2000 and Win XP operating system instead of the GPS receiver. Microsoft announces that this situation is "the serial device may be detected as a serial mouse in Win2000 and Win XP".

4. If your GPS receiver is recognized as a Microsoft serial mouse, there are two ways and you can choose either one to solve the problem. The first is to unplug the GPS receiver from PC, wait for 5~8 seconds, and re-plug the GPS receiver into your PC. The second is to disable this serial mouse; you can follow the step-by-step instructions below.

Click "start" \rightarrow click "Control Panel" \rightarrow double-click "system" icon \rightarrow click "Hardware" \rightarrow click "Device Manager" \rightarrow click "Mouse" \rightarrow select the wrong mouse \rightarrow click your real mouse right button \rightarrow disable the wrong mouse.

Should you have any additional question regarding the operation of USB GPS receiver, please feel free to contact your correspondent sales representative. It is important that you record what problems you encounter and what error messages occur at that point, so that the technical support people can detect your problems more efficiently.