

WinUSB Configuration: Guidelines

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ESA elettronica S.p.A.

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WinUSB on Windows Vista / Windows 7

With newest Microsoft operating systems such as Windows Vista and Windows 7, custom applications like Polymath must not use **Microsoft USB Sync** to exchange data with USB devices such as the ESA HMI panels. In order to establish a connection and exchange data USB device vendors must provide a driver that works with the new **Microsoft WinUSB** api library instead. Because of that ESA has prepared a driver update package that must be installed in order to download Polymath project files to panels via USB. The following is a step by step description of the driver update installation.

First of all plug a USB cable in your ESA HMI panel USB B port and then connect it to the Microsoft Vista / 7 machine where Polymath has been installed. If you open the Device Manager a Microsoft USB Sync has been detected in Mobile Devices list. We must now update the USB Sync device to a WinUSB device.



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In order to update the device right click and choose "Update Driver Software"



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When a new box opens choose "Browse my computer for driver software" option.

🔋 U	odate	Driver Software - Microsoft USB Sync	×				
0		Update Driver Software - Microsoft USB Sync					
How do you want to search for driver software?							
	•	<u>Search automatically for updated driver software</u> Windows will search your computer and the Internet for the latest driver software for your device.					
	•	B<u>r</u>owse my computer for driver software Locate and install driver software manually.					
	<u>[</u>						
			Cancel				



Then select "Let me pick from a list of device drivers on my computer" in next box.

	r Software - Microsoft USB Sync		
Browse for driver	software on your computer		
Search for driver so	oftware in this location:		~
		<u> </u>	B <u>r</u> owse
🗖 Include subfold	ders		
→ Let me pick This list will sho	from a list of device drivers on m ow installed driver software compatible	y computer with the device, and a	ll driver software in
the same cate	gory as the device.		
<u> </u>			
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Choose "Have Disk ..." option in next box ...

Select the device driv	ver you war ufacturer and	nt to install for this hardware. model of your hardware device and then click N	ext. If you
nave a uisk tha	it contains the	a unveryou want to install, click maye DISK.	
Show <u>c</u> ompatible har	dware		
Manufacturer		Model	
Linkup Systems		💐 Microsoft USB Sync	
MEI		Windows Powered Pocket PC 2002	
Microsoft	-	Windows Powered Pocket PC 2003	
Mitao 1		Windows Powered Smartphone 2002	-
This driver is divide	u signed	······	ave Dick
Tell me why driver s	y signeu. ianina is impo	rtant	ave Disk
	in the second		

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... and select the winusb.inf file in the folder where the ESA driver package must have been previously copied.

are a	🚺 Up	date Dri	ver Software	- Microsoft USB !	5ync		2	<u><</u>			
Recycle Bir		📋 Upd	ate Driver So	ftware - Microso	ft USB Sync						
Mod Modbus.ex	e	Select t	he device dri Select the man have a disk tha	ver you want to ufacturer and mode It contains the drive	install for this hardware. I of your hardware device and th r you want to install, click Have [en click Next. If you iisk.					
ModSim TCP.exe	nstall Fro	Manufa Linkup om Disk	v gompatible ha acturer Systems	dware	el icrosoft USB Sync		-				
desktop	\$	Insert ti make s	ne manufacture ure that the corr	's installation disk, a ect drive is selected	d then OK OK	2 Have Disk	-	Eile Acti	Manager op View Help		_ 🗆 ×
6										10 R 1	a 15
		Copy m	anufacturer's file IUSB Driver ES/	es from: \\winusb\	Browse	<u> </u>	ext Cancel		15-VISTA Computer Disk drives Display adapters		
POLYMA			🚑 Locate File	•			×	±	DVD/CD-ROM drives Floppy drive controller	s	
EpmFtp			Look in:	winusb	Date modified Type 29/04/2009 14.54 File Folde 22/04/2009 16.32 Setup In	r rormation ▼	✓ Attr ✓ 2 KB A Open		Human Interface Devi IDE ATA/ATAPI control Keyboards Mice and other pointin Mobile devices Microsoft USB Syn Monitors Network adapters Ports (COM & LPT) Processors Sound, video and gan Storage controllers System devices Universal Serial Bus co	ces g devices c e controllers ntrollers	
			Files of tupe:	Cetup Information	(King)		Cancel				
			riles or type:	Joetup Information	(m)					1	
Start	E		Device !	1anager	🕘 Update Driver Software	C:\	式 U	ntitled - Paint	IT		14.58

As soon as you press open button you will have the possibility to go on with the upgrade.

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Select Next button and the system will start copying files.

Update I	Driver Software - Microsoft USB Sync	2
🧿 🛛 u	pdate Driver Software - Microsoft USB Sync	
Selec	t the device driver you want to install for this h	ardware.
C	Select the manufacturer and model of your hardware have a disk that contains the driver you want to insta	device and then click Next. If you III, click Have Disk.
I Sł	now <u>c</u> ompatible hardware	
Mod	IEI ESA HMI Device using WinUSB	
	This driver is not digitally signed! Tell me why driver signing is important	Have Disk
		<u>N</u> ext Cancel

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When done the system will notify that driver upgrade is complete.



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The Device Manager will then show a new description "ESA HMI Device using WinUSB" for the USB device.



Once the upgrade is complete usage of USB download will be possible in Polymath.

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