APPLICATION NOTE



USB DRIVERS - INSTALLATION PROCEDURES



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1. Preface

The USB drivers for Pacific Power Source products reside on the actual products and are detected by Windows when the USB control interface is connected. Upon detection, Windows will auto mount the USB drive and the user can use Windows Explorer to run the installation program.

If automatic installation is not desired or if any virus checking software present on the Windows PC flags any possible threats, it is possible to bypass the automated installation process and perform a manual driver installation instead. This manual process bypasses any executable installer and eliminates any real or perceived security threat.

This Application note describes the manual installation process in detail. This application not applies to all PPS Power Sources equipped with a USB control interface. At the time of publication, this includes the following model series:

- ADF Series
- AFX Series
- AZX Series
- LMX Series

2. Drivers overview

Once the power source's USB port is plugged in, the USB is recognized as a compound device of three components:

a) USB drive containing unit related documentation, installers and files.



R&D



- b) Virtual COM useful for emulation a RS-232/RS-485 connection.
- c) Virtual LAN. It installs a virtual network card with LAN communication to the unit.

The unit can be accessed by using virtual IP address 192.168.123.1 by default.

3. Automatic installation

For automatic installation, plug the unit in to a Windows 10 PC and run the "Drivers_Installer.exe" setup program.

The installer can be found on the USB drive that is automatically mounted by Windows when the unit's USB interface is plugged in.

The installers and drivers can also be download from our FTP server using:

https://files.ppstinc.net/get.asp?id=tuyibhdsA2Bup0yExrDoB3cm1EiJhwcv

This is a compressed file, it should be decompressed before it can be used.





4. Manual installation

All Apps Documents Web M –	lore ~			e
Best match				
Sevice Manager Control panel				
Settings			Device Manager	
Printers & scanners			Control panel	
Device security		🕜 Open		
Device performance & health				
① Device specifications				
占 Find my device				
① View your PC name				
Search work and web				
Ø device - See work and web results				
Apps (2)				

🚦 Device Manager		-	×
File Action View Help			
(← → 〒 🗊 🗗 🗊 🖳 💺 🗶 💌			
Killer E2400 Gigabit Ethernet Controller SonicWall NetExtender Adapter TeamViewer VPN Adapter VirtualBox Host-Only Ethernet Adapter WAN Miniport (IKEV2)			^
WAN Miniport (IP) WAN Miniport (IPv6) WAN Miniport (I2TP)			
WAN Miniport (Vetwork Monitor) WAN Miniport (PPPOE) WAN Miniport (PPTP) WAN Miniport (SSTP)			
✓			
Portabl Update driver			
Ports (Disable device USE Uninstall device			
> 🚍 Print qu > 🚍 Printers Scan for hardware changes			
Process Properties Sensors			
Software components Software devices	-		
 Sound, video and game controllers Storage controllers 			
Launches the Update Driver Wizard for the selected device.			

After plugging the USB, open the Windows device manager.



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Select "Browse my computer for driver software".



		×
÷	Update Drivers - RNDIS	
	Browse for drivers on your computer	
	Search for drivers in this location:	
	Browse	
	✓ Include subfolders	
	→ Let me pick from a list of available drivers on my computer This list will show available drivers compatible with the device, and all drivers in the same category as the device.	
	<u>N</u> ext Cance	I



Select the folder "PPST(D):\drivers\windows" and click on "OK".

Bro	Browse For Folder			×
Se	elect t	he folder that contains drivers for your hardware.		
	De	sktop		^
) 🤯	Dropbox		
>)	OneDrive - PPST Inc		
>	- 2	ppst		
~	/ _	This PC		
	>	3D Objects		
	>	E Desktop		
	>	🗄 Documents		
	>	🖶 Downloads		
	>	b Music		
	>	E Pictures		
	>	Videos		
	>	🏪 Local Disk (C:)		
	~	PPST (D:)		
		documentation		
		V drivers		
		📙 windows		
>	-	Libraries		
	-	_PPST (D:)		~
E	-Idore	windows		
D)luer.	HIROWS		
			ОК	Cancel





On COM port corresponding to the unit. Right click and select "Update driver".

File Action View Help	 	^
(m) [m] [m] [m] [m] [m] [m] [m] [m] [m] (m)		^
 		^
🚽 WAN Miniport (PPTP)		
> Im queues Optate driver > Im Printers Disable device > Im Processors Uninstall device		
Software components Scan for hardware changes Software devices Properties		
 > Image System devices > Image Universal Serial Bus controllers Image System Serial Bus Keyboard Controllers 		

		×
~	Update Drivers - USB Serial Device (COM5)	
	How do you want to search for drivers?	
	→ <u>Search automatically for updated driver software</u> Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
	→ B <u>r</u> owse my computer for driver software Locate and install driver software manually.	
		Cancel



The driver should install automatically.



5. Manual uninstall with USB plugged in

Open the Device Manager and search "PPST – USB virtual LAN" into "Network adapters", right click on the device and select "Uninstall device".

🛃 Device Manager	_		×		
File Action View Help					
			^		
Wonitors Work adapters Willer E2400 Gigabit Ethernet Controller PPST - USB virtual LAN					
☑ SonicWall NetExtendel Update driver ☑ TeamViewer VPN Adap Disable device					
Uninstall device					
WAN Miniport (IP) Scan for hardware changes					
WAN Miniport (L2TP)					
WAN Miniport (PPPOE)					
🚽 WAN Miniport (PPTP) 🚽 WAN Miniport (SSTP)					
> Portable Devices					
PPST - USB virtual COM (COM5)					
> 🛱 Print queues					
> 🚍 Printers					
> Processors			~		
Uninstalls the driver for the selected device.					



Mark "Delete the driver software for this device." and click on "Uninstall" and wait for the operation finish.



📇 Device Manager		_	×
File Action View Help			
🗢 🔿 📰 📴 🛛 🖬 🖳 💺 🗙	•		
> 4 Audio inputs and outputs			^
> 💻 Computer			
> 🕳 Disk drives			
> 🏣 Display adapters			
> 🎽 Firmware			
> 🖓 Human Interface Devices			
> mail IDE ATA/ATAPI controllers			
> 🔤 Keyboards			
> II Mice and other pointing devices			
> 🛄 Monitors			
> 🚍 Network adapters			
> Portable Devices			
V Ports (COM & LPT)			
PPST - USB virtual COM (COM5			
> Print queues	Update driver		
> 🚍 Printers	Disable device		
> Processors	Uninstall device		
> 🔚 Sensors			
> Software components	Scan for hardware changes		
> Software devices	Propertier		
Sound, video and game controllers	rioperues		
Storage controllers			
> E System devices			
Universal Serial Bus controllers			
> M Universal Serial Bus Keyboard Contr	ollers		~
Uninstalls the driver for the selected device.			



Mark "Delete the driver software for this device." and click on "Uninstall" and wait for the operation finish.

Uninstall Device	Х			
PPST - USB virtual COM (COM5)				
Warning: You are about to uninstall this device from your system.				
Delete the driver software for this device.				
Uninstall Cance	el			

6. Manual uninstall with USB unplugged

If the power source is not connected to the PC is possible to uninstall any way by enabling the option "Show hidden devices" in the menu "View", after enabling this option the process is the same as before.

📇 Device Manager		_	×
File Action View Help			
🗇 🔿 📰 📔 🔹 Devices by type			
Devices by connection			-
Devices by container			
Cor Resources by type			
> _ Disk Resources by connection			
> Dist			
> Fim Show mader devices			
Customize			
> -> Imaging devices			
> Keyboards			
Mice and other pointing devices			
> 🛄 Monitors			
✓			
🕎 Killer E2400 Gigabit Ethernet Controller			
Microsoft Kernel Debug Network Adapter			
PPST - USB virtual LAN			
SonicWall NetExtender Adapter			
IeamViewer VPN Adapter			
WAN Miniport (IKEv2)			
WAN Miniport (IREV2)			
WAN Miniport (IPv6)			
WAN Miniport (L2TP)			
WAN Miniport (Network Monitor)			
WAN Miniport (PPPOE)			~
Displays legacy devices and devices that are no longer ins	talled.		



7. Troubleshooting

If the USB drivers stop working or if any of the three devices stop working, it is recommended to perform a manual **uninstall** with USB unplugged (Section 6) and then perform a fresh Manual **installation** (Section 4). If this does not fix the problem, please contact pacific power for support.

8. Customer Support

For application support, contact Pacific Power Source's Customers Service - Toll Free US: +1 (800) 854-2433 / <u>support@pacificpower.com</u> or your local authorized Pacific Power Source distributor.

AMERICA / CANADA	EUROPE	CHINA
Pacific Power Source	Pacific Power Source Europe, GmbH.	PPST Shanghai Co. Ltd.
2802 Kelvin Avenue, Suite 100	Binzigstraße 21	4 floors , building 2, No. 2185 Lai Fang
Irvine, CA 92614	D-77876 Kappelrodeck	Road
USA	Germany	Jiu Ting Town, Song Jiang District
Phone: +1(949) 251-1800	Phone: +49(0)7842-99722-20	Shanghai 201615
Fax: +1 (949) 756-0756	Fax: +49(0)7842-99722-29	Phone: +86-21-6763-9223
Email: support@pacificpower.com	Email: info@pacificepower.eu	Fax: +86-21-5763-8240
		Email: support@pacificepower.com



2802 Kelvin Ave, Suite 100 Irvine, CA 92614 USA Phone: +1 949.251.1800 Fax: +1 949.756.0756 Toll Free: 800.854.2433 E-mail: sales@pacificpower.com www.pacificpower.com