



Sondex Wireline

Driver Package Guide

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Contents

1	Int	troduction	3
2	De	evice Installation Settings	3
3	Ра	ckage Installation	5
4	Ра	ckage Uninstallation	8
5	Ра	ckage Details	.10
	5.1	Sondex USB (SNDXUSB)	.10
	5.2	Sondex FTDI (SXFTDI)	.10
	5.3	Scientific Data Systems USB (SDSUSB)	.12
	5.4	Prolific (PL2303_Prolific_DriverInstaller_VXXX)	.13
	5.5	HASP (HASPUserSetup)	.14
	5.6	Printrex (PrxDrvInstaller_ReIXXX)	.14
	5.7	Pico (PICO, PICOPP and PICOWINUSB)	.19

1 Introduction

This document describes the driver packages supplied by Sondex for Windows 7, 8/8.1 and 10.

Driver packages are single executable files which, when run, pre-install all the necessary files in the system's driver store. When the device is then connected to the system, Windows locates the necessary files in the driver store and installs the driver automatically.

2 Device Installation Settings

When a device is connected to the system, Windows will normally search the driver store and Windows Update online for the best driver. Searching Windows Update can add considerable time to the device installation so it can be a good idea to switch this option off.

In Windows 7, go to *Control Panel, System and Security, System*, then *Advanced system settings*. In Windows 10, go to *Settings, System, About, System info*, then *Advanced system settings*.

System Properties	5				×
Computer Name	Hardware	Advanced	System Protection	Remote	
Device Manay The on y prop	ger Device Mar vour compute perties of any	nager lists all er. Use the D device.	the hardware device evice Manager to ch Device Manag	s installed ange the ger	
Device Install	ation Settings ose whether ices and det	s Windows do ailed informat	wnloads driver softw ion about them. Device Installation (are for your Settings	
		ОК	Cancel	Αρ	ply

In the Hardware tab, select Device Installation Settings:

Device Installation Settings
Do you want Windows to download driver software and realistic icons for your devices?
\bigcirc Yes, do this automatically (recommended)
No, let me choose what to do
<u>Always install the best driver software from Windows Update.</u>
Install driver software from Windows Update if it is not found on my computer.
Never install driver software from Windows Update.
Replace generic device icons with enhanced icons
Why should I have Windows do this automatically?
Save Changes Cancel

Device installation settings	×
Do you want to automatically download manufacturers' apps and custom icons available for your devices?	
○ <u>Y</u> es (recommended)	
<u>No (your device might not work as expected)</u>	
Save Changes Cancel	-

Then select *Never install driver software from Windows Update* (for Windows 7) or *No* (for Windows 10).

3 Package Installation

Before installing a package it is important that the devices that the package is for are switched off or, for devices which take their power from the USB cable like the USB to serial adapters, unplugged from the system. Devices which go through a two-stage process to download their firmware **must** be switched off to clear the existing firmware from their memory.

If an older version of a package has already been installed for a device, you should uninstall it first before installing the newer package. See the next section for uninstall instructions.

In general, you will need to be a local administrator on the machine to install drivers. To install a package, run the package executable file. Shown below are examples of the screens that will be displayed:



Sondex Device Driver Installer
Installing the drivers for the Sondex devices
Value of the second state
< <u>B</u> ack <u>N</u> ext > Cancel

Windows Security
Would you like to install this device software?
Name: MCU MFP PLP ULP ULM1/2/3 GPI DLP Publisher: Sondex
Always trust software from "Sondex".
You should only install driver software from publishers you trust. <u>How</u> <u>can I decide which device software is safe to install?</u>

You can select *Always trust software from Sondex* if you don't want this warning to appear again.

Sondex Device Driver Installer		
	Finished installing MCU MFP PLP ULP DLP	the drivers for the ULM1/2/3/4 GPI
	The drivers were successfully in	stalled on this computer.
	You can now connect your devi came with instructions, please re	ice to this computer. If your device ead them first.
	Driver Name	Status
	Sondex MCU MFP PLP	Ready to use
	< Back	Finish Cancel

At this point, the drivers have been pre-installed in the Windows Driver Store. Now connect the device(s). The operating system will locate the correct drivers in the driver store and install them automatically. If the device is one which requires a two-stage load, the process is immediately repeated for the second stage.

If another USB port is used for the device, Windows will repeat the process of locating and installing the drivers automatically (there is no need to run the package executable again).

4 Package Uninstallation

Most packages, when installed, have an entry in Programs and Features, for uninstallation. They are generally listed as a Windows Driver Package with a description:

Programs and Features						- 0	×
← → × ↑ 🖬 > Control Pa	anel > Programs > Programs and Features				✓ Ö Search Prog	grams and Features	ρ
Control Panel Home	Uninstall or change a program						
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.					
🎈 Turn Windows features on or	iurn Windows features on or						
off	Organize 🔻 Uninstall/Change						?
	Name	Publisher	Installed On	Size	Version		^
	💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.12.24		
	💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.12.24		- 6
	💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.12.24		
	💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.12.24		
	🗹 💐 Windows Driver Package - Sondex MCU MFP PLP	Sondex	14/07/2020		04/08/2020 3.6.0.0		
							~
	Sondex Product version: 04/08/2020 3.6.0.0)					

Sondex FTDI packages generally have four entries, two for the standard FTDI devices and two for the Sondex specific ones, all four must be uninstalled:

🖸 Programs and Features – 🗆 X								
← → × ↑ 🖬 > Control Pa	anel > Programs > Programs and Features				ע פֿ Search	n Programs and Fe	atures	9
Control Panel Home	Uninstall or change a program							
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.						
Turn Windows features on or								_
оп	Organize 🔻 Uninstall/Change						•	?
	Name	Publisher	Installed On	Size	Version			^
	🖂 💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.12.24	1		
	💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.12.24	1		- 64
	💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.12.24	1		
	💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.12.24	1		
	💐 Windows Driver Package - Sondex MCU MFP PLP	Sondex	14/07/2020		04/08/2020 3.6.0.0			
								~
	FTDI Product version: 09/28/2016 2.12.24							

Programs and Features – 🗆 X									
← → × ↑ 🖸 > Control Pa	anel > Programs > Programs and Features				v Ċ Se	earch Program	ns and Fe	atures	ρ
Control Panel Home "Programs"	" (Alt + Up Arrow) Uninstall or change a program								
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.							
Turn Windows features on or									
off	Organize 👻 Uninstall/Change							•	?
	Name	Publisher	Installed On	Size	Version				^
	💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.1	12.24			
	💐 Windows Driver Package - FTDI CDM Driver Packa	FTDI	14/07/2020		09/28/2016 2.1	12.24			- 64
	🗹 💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.1	12.24			
	💐 Windows Driver Package - Sondex FTDI CDM Driv	Sondex	14/07/2020		09/28/2016 2.1	12.24			
	💐 Windows Driver Package - Sondex MCU MFP PLP	Sondex	14/07/2020		04/08/2020 3.6	5.0.0			
									~
	Sondex Product version: 09/28/2016 2.12.2	4							

Click on the appropriate driver package and select Uninstall/Change or Remove. When prompted to uninstall the package, select Yes.

Uninstall (Driver Package	\times
?	All devices using this driver will be removed. Do you wish to continue?	
	Yes No	

5 Package Details

5.1 Sondex USB (SNDXUSB)

This package contains drivers for the following Sondex USB devices:

ULP	Ultralink Panel
MFP	Multifinger Panel
PLP	Production Logging Panel
MCU	Memory Control Unit
ULM	Ultralink Module (Mk1, Mk2, Mk3 and Mk4)
GPI	General Purpose Interface
DLP	Dual Laterolog Panel

Note that these devices go through a two-stage process when connecting, each stage requiring a different driver. When the device initially connects, the loader driver downloads the firmware to the device from the PC. The device then disconnects and reconnects as a different device and the normal driver takes over.

5.2 Sondex FTDI (SXFTDI)

This package is for Sondex devices which use USB to serial chips from Future Technology Devices International:

HMU	Hades Memory Download Unit
UCU	Ultrawire Control Unit
VLP	Video Logging Panel
IBT	IBus Tester
UMU	Ultrawire Memory Control Unit
MDA	Memory Download Adapter
MCP003	Mule Control Panel
DRS017	Digital Recording System (remote display output)

The HMU and UCU will be detected as standard USB devices and will appear in Device Manager under Universal Serial Bus controllers.

The UMU and MDA are composite USB devices (with two logical devices in one physical one). In Device Manager, under Universal Serial Bus controllers, there will be listed a USB Composite Device (with generic drivers supplied as part of the operating system) and two

Ultrawire Memory Control Unit devices (one Control and one Data) or two Memory Download Adapter devices (one Tx and one Rx).

The VLP, IBT, MCP003 and DRS017 remote display output will appear as USB serial ports. Once the device is connected and the driver is loaded, a new serial port is added to the system. The port number that is assigned (e.g. COM3) depends on what other serial ports are already in the system and can change if the device is plugged into a different USB port.

You can find out which port number has been assigned by looking in Device Manager. It is also possible to change the port number here. The application software will need to be configured to use the correct port number.

USB Serial Port (COM3) Properties
General Port Settings Driver Details
Bits per second: 9600 ▼ Data bits: 8 ▼ Parity: None ▼ Stop bits: 1 ▼ Flow control: None ▼
Advanced Restore Defaults OK Cancel

Advanced Settings for COM3	? 💌
COM Port Number: COM3 USB Transfer Sizes Select lower settings to correct performance problems at low Select higher settings for faster performance. Receive (Bytes): 4096 • Transmit (Bytes): 4096 •	OK OK Cancel Defaults
BM Options Select lower settings to correct response problems.	Miscellaneous Options Serial Enumerator
Latency Timer (msec):	Serial Printer
Timeouts	Set RTS On Close
Minimum Read Timeout (msec):	Enable Selective Suspend
Minimum Write Timeout (msec):	

5.3 Scientific Data Systems USB (SDSUSB)

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This package contains drivers for USB devices from Scientific Data Systems. Note that Sondex DRS systems contain at least one device from SDS (e.g. a DIU for depth and tension etc.) so this package will be required for DRS systems.

SDS devices also go through a two-stage process when connecting, similar to the Sondex ones.

5.4 Prolific (PL2303_Prolific_DriverInstaller_VXXX)

This driver is for the Prolific PL-2303 USB to Serial Adapter which is used in a number of Sondex systems. There is one inside each DRS013 (for a remote MTL display) and the adapter is also used to connect to various serial devices from USB (e.g. a DTR).

Once the device is connected and the driver is loaded, a new serial port is added to the system. The port number that is assigned (e.g. COM4) depends on what other serial ports are already in the system and can change if the device is plugged into a different USB port.

You can find out which port number has been assigned by looking in Device Manager. It is also possible to change the port number here. The application software will need to be configured to use the correct port number.

Prolific USB-to-Serial Comm Port (COM4) Properties	
General Port Settings Driver Details	
<u>B</u> its per second: 9600 ▼	
Data bits: 8	
<u>P</u> arity: None ▼	
Stop bits: 1	
Flow control: None	
<u>A</u> dvanced <u>R</u> estore Defaults	
OK Cancel	

Advanced Settings for COM4	×
Use FIFO buffers (requires 16550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance	OK Cancel
Receive Buffer: Low (1)	<u>D</u> efaults
Transmit Buffer: Low (1)	
COM <u>P</u> ort Number: COM4 ▼	

5.5 HASP (HASPUserSetup)

This driver installs the Sentinel Runtime environment which is required for accessing the Sentinel Hardlock and Sentinel HASP keys (dongles) that protect various software packages including Warrior and other programs from Sondex.

There is also a command line installer (haspdinst) which can be used to install or remove the Sentinel Runtime in case of difficulty with the standard GUI installer.

5.6 Printrex (PrxDrvInstaller_RelXXX)

This driver needs to be installed if you will have a Printrex printer attached to the system. The driver package should be run before the printer is connected.

Then, if the printer is directly connected via USB (e.g. models 823 and 843), Windows should automatically install the drivers from the Windows Driver Store when the printer is connected and switched on.

However, for models connected via a parallel cable, or a USB to parallel adapter, the *Add a printer* wizard must be run to install the driver for the model being used. When prompted for the printer port, select the USB virtual printer port if the printer is attached to a USB to parallel adapter:

🥪 🖶 Add Printer	×
What type of printer do y	you want to install?
Add a local printer Use this option only if you when you plug them in.)	don't have a USB printer. (Windows automatically installs USB printers
Add a net <u>w</u> ork, wire Make sure that your comp printer is turned on.	less or Bluetooth printer outer is connected to the network, or that your Bluetooth or wireless
	Next Cancel
🚱 🖶 Add Printer	
Choose a printer port	
A printer port is a type of connec	tion that allows your computer to exchange information with a printer.
<u>U</u> se an existing port:	USB001 (Virtual printer port for USB)
Create a new port: Type of port:	Local Port 👻
	Next Cancel

Note that each time the USB printer adapter is used in a different USB port, a new virtual port is created (USB001, USB002 etc.). It is easier to always keep the adapter on the same port.

Then when prompted for the manufacturer, select Printrex and then the model being used (usually an 820DL/G or an 823 or 843 for Sondex supplied plotters):

🖶 Add Printer		X
Install the printer driver Choose your printer from the To install the driver from an	e list. Click Windows Update to see more models. installation CD, click Have Disk.	
Manufacturer Printrex Ricoh Samsung Savin Channel This driver has an Authenticode(<u>Tell me why driver signing is imp</u>	Printers Printrex 820DL (201 Y DPI) Printrex 820DL/G Printrex 822DL/G Printrex 822DL/G Indicate 822 tm) signature. Windows Update Have Disk portant	•
	Next	icel

G 🖶 Add Printer	
Type a printer r	name
<u>P</u> rinter name:	Printrex 820DL/G
This printer will be i	nstalled with the Printrex 820DL/G driver.
	<u>N</u> ext Cancel
🍚 🖶 Add Printer	
You've success	fully added Printrex 820DL/G
You've success	fully added Printrex 820DL/G
You've success	fully added Printrex 820DL/G
You've success	fully added Printrex 820DL/G
You've success	fully added Printrex 820DL/G
You've success Set as the defa To check if your printest page.	fully added Printrex 820DL/G
You've success Set as the defa To check if your print test page. Print a test page	fully added Printrex 820DL/G

The driver is now installed, but needs to be configured properly through Printing Preferences. There is a Printrex Driver User Guide which describes the settings.

🖶 Printrex 820DL/G Printing Preferences	——
Layout Paper/Quality	
Orientation:	
A Portrait	
Page O <u>r</u> der:	
Front to Back 👻	
Page Format	
Pages per Sheet 1 👻	
	Ad <u>v</u> anced
-	OK Cancel Apply

Sondex recommends using:

Paper Size:	8.75 x 6.25 Half Page
	(or 8.5 x 6.25 Half Page if using narrower paper)
Media Selection:	Printrex Rolled Fanfold or Printrex Roll Paper
Start-of-Job Control:	No Form Feed
End-of-Page Control:	Contiguous
End-of-Job Control:	Form Feed



5.7 Pico (PICO, PICOPP and PICOWINUSB)

These drivers are for the various interfaces to the Pico devices in the Mule Control Panels MCP002 and MCP003.

There are 3 options:

- If you are using a simple cable from the PC parallel port to the MCP002 then the PICO driver must be installed. This driver is only available for 32-bit operating systems.
- II. If you are using a Pico USB parallel port adapter to connect to the MCP002 then the PICOPP driver must be installed. This driver again is only available for 32-bit operating systems.
- III. If you are using the MCP003 (which has a PicoLog 1012 device inside), connected via USB, then the PICOWINUSB drivers are required. These drivers are for both 32-bit and 64-bit operating systems.