PROCAN+ PROFESSIONAL CAN BUS SIMULATOR

UTILINX

PROCAN+ manual

Version: 1.0.3

Professional CAN BUS Simulator



1

Index

		. 1
PROCAN+ ma	nual	. 1
Safety consid	erations	. 3
	Electrical Characteristics	. 3
Description		. 4
Connections.		. 5
	Connector DB9	. 5
LED		. 6
	Information	. 6
Software		. 7
	System Requirements	. 7
	Drivers USB	. 7
	Installing drivers	. 7
	Windows Update	. 7
	Installation through the FTDI executable	. 8
	Graphical User Interface PROCAN+ software	11
Errors		12

Image 1 – PROCAN+ DB9 connector.	5
Image 2 - PROCAN+ LED	6
Image 3 - Windows Update driver installation	7
Image 4 - Download do driver through the FTDI website	8
Image 5 - FTDI driver executable.	8
Image 6 - Instaling FTDI driver.	8
Image 7 - Completing the FTDI driver installation.	9
Image 8 - Windows device manager.	10
Image 9 - Communication window in software PROCAN+	10
Image 10 - PROCAN+ software	11
Image 11 - Hidden Itens	13
Table 1 - Connections of connectorr DB9.	5
Table 2 - State of the LEDs	6
Table 3 - Graphical User Interface	11
Table 4 - Diagnostics	12

Safety considerations

Please read the information below before using the equipmanent.

Failure to follow these considerations during the use of the equipment may cause the equipment to malfunction and *UTILINX* assumes no responsibility for the equipment.

Electrical Characteristics

- Do not power the unit with a voltage greater than 15V;
- Do not feed the CAN BUS with a voltage greater than 12V;
- Do not use the equipment in places with water;
- Do not attempt to open the device.

Contents

- Unit PROCAN+;
- Cable mini USB;
- Cable DB9;
- Carrying case.

Description

This equipment is a device that helps the repair of dashboards and steering columns it works with several brands. The unit generate *CAN* commands to simulate actual operation without the part being connected to the vehicle.

Connections

PROCAN+ equipment consists of two connectors. A mini *USB* that communicates with the software and a *DB9* connector that allows to connection to the CAN bus and to power the equipment. *Table 1 - DB9 Connector Connections contains the DB9 connector connections*.

Connector DB9



Image 1 – PROCAN+ DB9 connector.

Table 1 - Connections of connectorr DB9.

Pin	Connector	Cable DB9			
1	CAN BUS LOW	W/bito			
2	CAN BUS LOW	white			
3	NC	NC			
4	CAN BUS High	Yellow			
5	CAN BUS HIGH	renow			
6	CND	Plack			
7	GND	DIdCK			
8	121/	Pod			
9	120	Red			

LED

The PROCAN + device contains three LEDs that indicate the state of the equipment during operation. The conditions of the LEDs can be found in *Table 2 - State of the LEDs*.

Information



Image 2 - PROCAN+ LED

Table 2 - State of the LEDs.

LED	ON	OFF	Toggle	
POWER (Red)	Device on	Device off	NA	
CAN BUS (Green)	Error on CAN BUS	No communication	Transmit data	
USB (Yellow)	NA	USB disable	Transmit data	

Software

System Requirements

To run PROCAN + software you need the following:

- Microsoft .NET Framework 4.6.1;
- FTDI driver;
- Microsoft Windows 7(x86, x64) or Microsoft Windows 10(x86, x64).

Drivers USB

For communication between the software and the *PROCAN+* device, the drivers must be installed for the *FTDI* integrated circuit. The *FTDI* driver is available for download on the following website:

http://www.ftdichip.com/FTDrivers.htm

Installing drivers

Connect the PROCAN+ device to a USB port on your Windows 10, 7 or XP computer.

Windows Update

If your computer has an internet connection, *Windows* will establish a connection to *Windows* Update and install an available driver for the device.

Installing USB <-> Serial Converter



Please wait while Setup installs necessary files on your system. This may take several minutes.

Close

Image 3 - Windows Update driver installation.

Installation through the FTDI executable

Through the previous link it is possible to download the executable as indicated in yellow in *Image 4 - Download the driver through the FTDI website.*

					Proce	ssor Architecture		
Operatir System	g Release	e Date	x86 (32-bit)	x64 (64-bit)	ARM	MIPS	SH4	Comments
Windows	s* 2017-0)8-30	2.12.28	2.12.28	-	-	-	WHQL Certified, Includes VCP and D2XX. Available as a setup executable Please read the Release Notes and Installation Guides.

Image 4 - Download do driver through the FTDI website.

After you download the executable, right-click the executable icon and select Run as Administrator.



Image 5 - FTDI driver executable.

When the User Account Control message appears asking if you want to make changes to your computer, select yes to proceed.



Image 6 - Instaling FTDI driver.

Proced with the installation of the driver it will be installed automatically on your computer. Image 7 - Completing the FTDI driver installation, shows a successful installation of the driver.

Assistente de Instalação de Controlador de Dispositivo



Image 7 - Completing the FTDI driver installation.

After the successful installation of the driver, when the *PROCAN*+ device is connected to the computer it will be listed in the *Windows* device manager, as shown in *Image 8 - Windows Device Manager*.

Gestor de Dispositivos	-	X
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e 🔿 📧 😰 💵 💯		
> 📲 Controladores IDE ATA/ATAPI		
> 🏺 Controladores USB (Universal Serial Bus)		
> Dispositivos biométricos		
> 🏧 Dispositivos de interface humana		
> 🚡 Dispositivos de processamento de imagens		
> Dispositivos de software		
> 🛄 Dispositivos de tecnologia de memória		
> 🏣 Dispositivos do sistema		
> 🏺 Eltima Usb Stub		
> 🐗 Entradas e saídas de áudio		
> 🚍 Filas de impressão		
> 🚍 Fornecedor de Impressão WSD		
> 🚍 Impressoras		
> 🖵 Jungo Connectivity		
> 🛄 Monitores		
> 😰 Outros dispositivos		
> 🚽 Placas de rede		
> 🔙 Placas gráficas		
Portas (COM e LPT)		
USB Serial Port (COM15)		
> Processadores		
> III Ratos e outros dispositivos apontadores		
> 🔚 Sensores		
> 🔤 Teclados		
> 🚘 Unidades de disco		

Image 8 - Windows device manager.

You must know the serial port number to establish the connection between the software and the *PROCAN*+ device. However, in the software, the word *PROCAN*+ (COMx-PROCAN +)¹ is shown next to the port number as shown in *Image 9 - Communication window in software PROCAN*+.

U PROCAN+	×
Tool communication	
Tool Port: COM4-PROCAN+ V Connect	
Tool information	
Tool Serial Number:	
Option Unlock: Verify	
Status: Com Ports detected.	

Image 9 - Communication window in software PROCAN+.

¹ When there is more than one FTDI device running in Windows the PROCAN+ software only shows Port: (COMx).

PROCAN+ PROFESSIONAL CAN BUS SIMULATOR

Graphical User Interface PROCAN+ software



Image 10 - PROCAN+ software.

Table 3 - Graphical User Interface.

A-Settings	Establish communication between hardware and software.
	See manual.
B-Manufacturer	Selection of manufacturer.
C-Hardware Information	 Indicate the state of communication between the hardware and the software. Hardware serial number. Enable module.

Errors

In case of an error when using the equipment see Table 4 – Diagnostics

Table 4 - Diagnostics.

Problem	Solution
The serial port does not appear in the PROCAN +	 After powering on the equipment do not turn on the LEDs Disconnect other USB devices and check again. Restart the hardware.
Cannot establish communication between hardware and software	 Verify if the software is running and connected to the hardware. Check that the serial port is open in other software. Restart the hardware.
The dashboard or stering is not responding to CAN commands	 Check the CAN bus if the yellow conductor connected to the CAN High and the white conductor to the CAN Low. Turn on or turn off the 120 ohm resistor.
After powering on the equipment the red LED stay off	 Check the voltage with a multimeter in the <i>DB9</i> cable. Check the polarity of the 12 volts. Connect a USB cable to the product and verify that the hardware starts.

If the problem is not in *Table 4 - Diagnostics*, or if the problem persists send an email to geral@utilinx.pt.

This email should contain the description of the problem and the attached Procan.log file that is on the directory *C*:*Users*\{*username*}*AppData**Roaming**Utilinx*. You must enable hidden items in Windows Explorer as in *Image 11 - Hidden Items*.

Ficheiro	Base	Partilhar	Ver								-* 🕐
Painel de navegação	Pa Pa Pa	ainel de pré-vis ainel de detalh	ualização es	 Ícones muito grande Ícones médios Lista 	es 🛋 Ícones grandes 🏭 Ícones pequenos 🖽 Detalhes	* * *	Ordenar por ▼	 ☐ Caixas de verificação de itens ✓ Extensões de nome de ficheiro ✓ Itens ocultos 	Ocultar itens selecionados	Ŭ Opções ▼	
Painéis				E	Esquema		Vista atual	Mostrar/ocultar			
Image 11 - Hidden Itens.											