

User Manual

Revision 1.100

English

PROFINET / CAN - Converter

(Order Code: HD67606-A1)

For Website information:

www.adfweb.com?Product=HD67606

For Price information:

www.adfweb.com?Price=HD67606-A1

Benefits and Main Features:

- ✚ Electrical isolation
- ✚ Temperature range: -40°C/+85°C (-40°F/+185°F)



User Manual

For others PROFINET products, see also the following links:

Converter PROFINET to

www.adfweb.com?Product=HD67078
www.adfweb.com?Product=HD67090
www.adfweb.com?Product=HD67178
www.adfweb.com?Product=HD67600
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www.adfweb.com?Product=HD67B46
www.adfweb.com?Product=HD67C77
www.adfweb.com?Product=HD67D33
www.adfweb.com?Product=HD67E23
www.adfweb.com?Product=HD67E73
www.adfweb.com?Product=HD67F33

(M-Bus)
(M-Bus Wireless)
(SNMP Manager)
(NMEA2000)
(RS232/RS485)
(Modbus Master)
(Modbus Slave)
(PROFIBUS Master)
(PROFIBUS Slave)
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(EtherNet/IP Master)
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(OPC UA Server)
(EnOcean)
(LoRaWAN)
(EtherCAT Slave)
(EtherCAT Master)
(LoRaWAN Gateway)

Do you need to choose a device? do you want help?

www.adfweb.com?Cmd=helpme

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UPDATED DOCUMENTATION:

Dear customer, we thank you for your attention and we remind you that you need to check that the following document is:

- ✚ Updated
- ✚ Related to the product you own

To obtain the most recently updated document, note the “document code” that appears at the top right-hand corner of each page of this document.

With this “Document Code” go to web page www.adfweb.com/download/ and search for the corresponding code on the page. Click on the proper “Document Code” and download the updates.

REVISION LIST:

Revision	Date	Author	Chapter	Description
1.002	27/01/2015	Ff	All	New Software Interface
1.003	17/06/2022	Ff	All	Hardware revision
1.100	19/12/2024	Ln	All	New design

WARNING:

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SECURITY ALERT:**GENERAL INFORMATION**

To ensure safe operation, the device must be operated according to the instructions in the manual. When using the device, legal and safety regulation are required for each individual application. The same applies also when using accessories.

INTENDED USE

Machines and systems must be designed so the faulty conditions do not lead to a dangerous situation for the operator (i.e. independent limit switches, mechanical interlocks, etc.).

QUALIFIED PERSONNEL

The device can be used only by qualified personnel, strictly in accordance with the specifications. Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

RESIDUAL RISKS

The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:

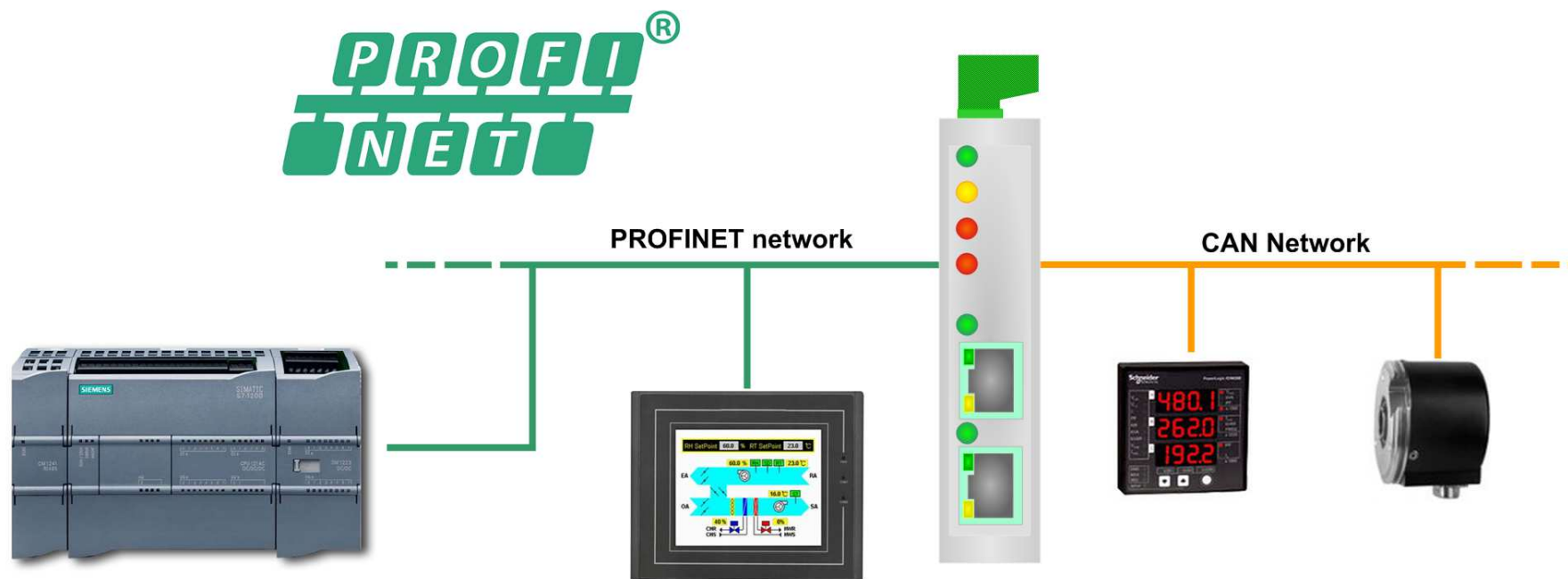


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

CE CONFORMITY

The declaration is made by our company. You can send an email to support@adfweb.com or give us a call if you need it.

EXAMPLE OF CONNECTION:



HD67606-A1

CONNECTION SCHEME:

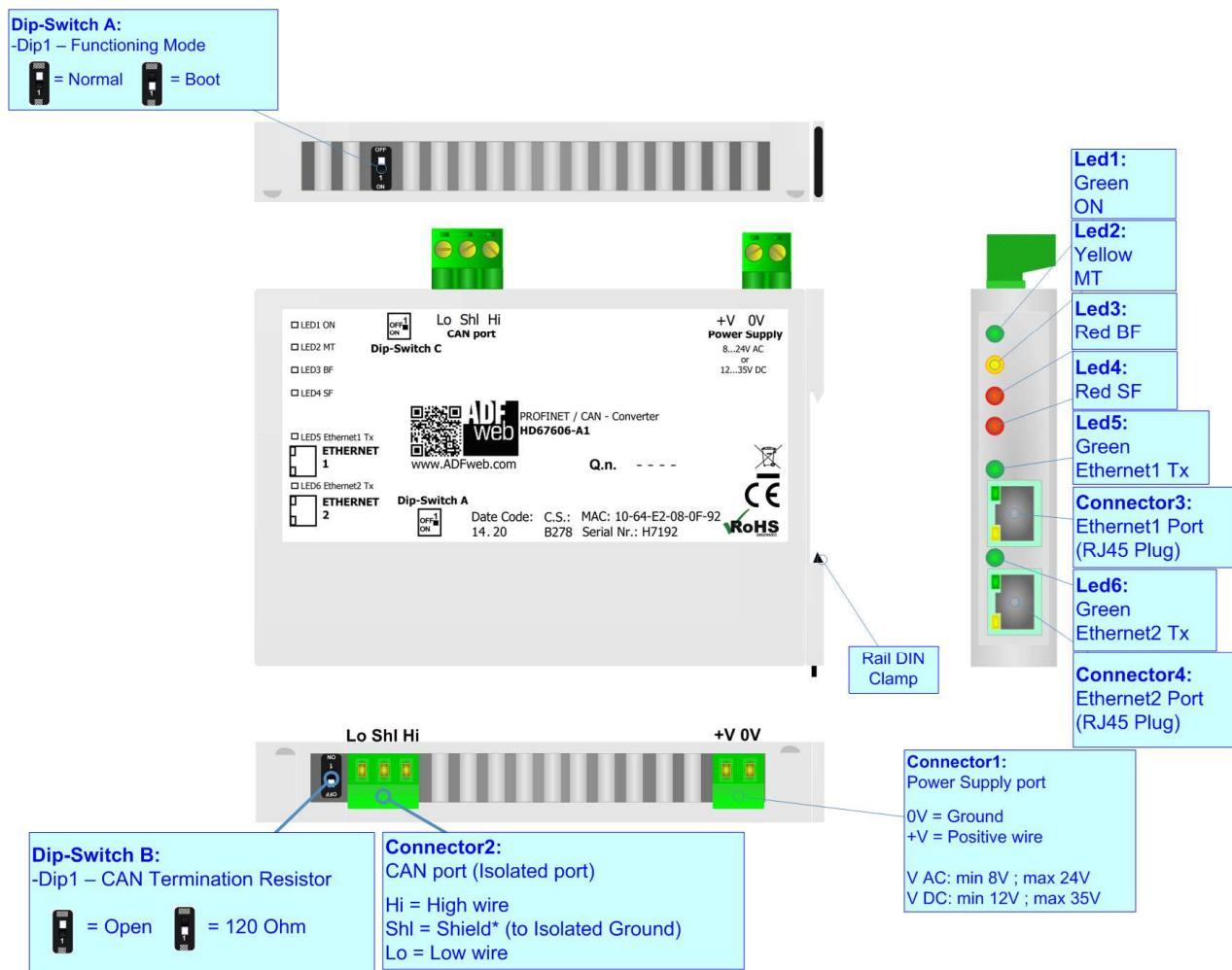


Figure 1: Connection scheme for HD67606-A1

CHARACTERISTICS:

The HD67606-A1 is a PROFINET / CAN Converter.

It has the following characteristics:

- Up to 1440 bytes in reading and 1440 bytes in writing;
- Triple isolation between CAN - Power Supply, CAN - Ethernet, Power Supply - Ethernet.
- Two-directional information between CAN bus and PROFINET bus;
- Mountable on 35mm Rail DIN;
- Wide power supply input range: 8...24V AC or 12...35V DC;
- Wide temperature range: -40°C / +85°C [-40°F / +185°F].

CONFIGURATION:

You need Compositor SW67606 software on your PC in order to perform the following:

- Define the parameter of PROFINET line;
- Define the parameter of CAN line;
- Define the CAN frames that the Converter can accept;
- Define the CAN frames that the Converter sends through the CAN line;
- Define the map of CAN byte that must be written in the PROFINET array;
- Define the map of which PROFINET bytes must be written in CAN frames;
- Update the device.

POWER SUPPLY:

The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

VAC 		VDC 	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

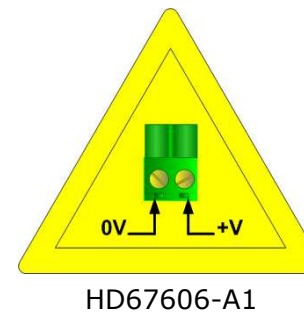
Consumption at 24V DC:

Device	Consumption [W/VA]
HD67606-A1	3.5

Connector1:
Power Supply port
0V = Ground
+V = Positive wire
V AC: min 8V ; max 24V
V DC: min 12V ; max 35V



Caution: Not reverse the polarity power



FUNCTION MODES:

The device has got two functions mode depending of the position of the 'Dip1 of Dip-Switch A':

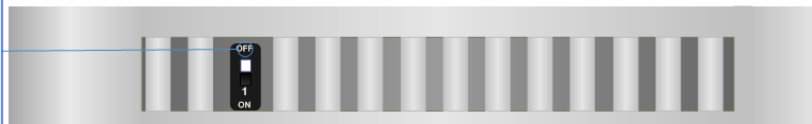
- The first, with 'Dip1 of Dip-Switch A' at "OFF" position, is used for the normal working of the device.
- The second, with 'Dip1 of Dip-Switch A' at "ON" position, is used for upload the Project and/or Firmware.

For the operations to follow for the updating, see 'UPDATE DEVICE' section.

According to the functioning mode, the LEDs will have specifics functions, see 'LEDS' section.

Dip-Switch A:
-Dip1 – Functioning Mode

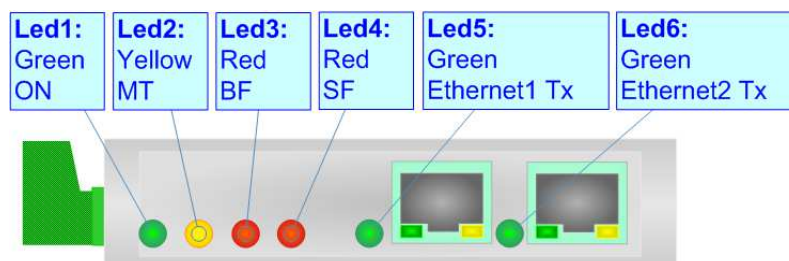
 = Normal  = Boot



LEDS:

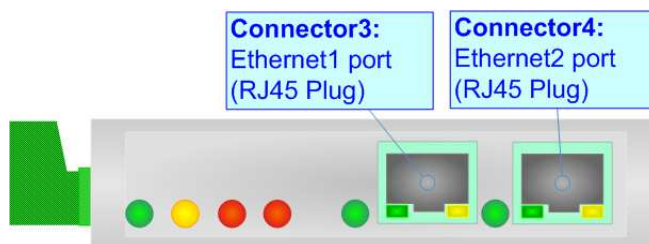
The device has got six LEDs that are used to give information of the functioning status.
The various meanings of the LEDs are described in the table below.

LED	Normal Mode	Boot Mode
1: ON [supply voltage] (green)	ON: Device powered OFF: Device not powered	ON: Device powered OFF: Device not powered
2: MT [maintenance display] (yellow)	ON: Maintenance Problem is present OFF: No maintenance are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: BF [bus fault] (red)	ON: The Ethernet connection is defective; the IP address exists several times in the network; the own NameOfStation exists several times in the network; no IP address has been set Flashing: At least one configured AR is no longer in the data exchange OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: SF [group error] (red)	ON: At least one AR is not in the data exchange OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



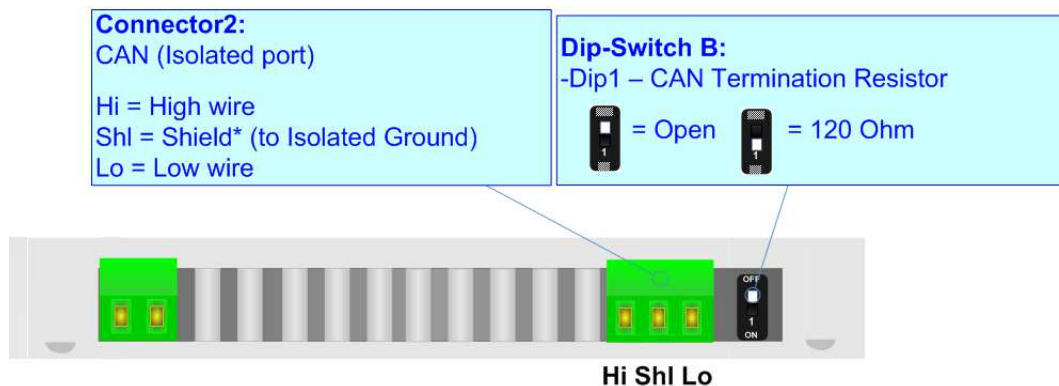
PROFINET:

The PROFINET connection must be made using Connector3 and/or Connector4 of HD67606-A1 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC/PLC/other is recommended the use of a cross cable.



CAN:

For terminate the CAN line with a 120Ω resistor it is necessary that the Dip1 of 'Dip-Switch C' is at ON position.



Cable characteristics:

DC parameter:		Impedance	70 Ohm/m
AC parameters:		Impedance	120 Ohm/m
		Delay	5 ns/m
Length		Baud Rate [bps]	Length MAX [m]
		10 K	5000
		20 K	2500
		50 K	1000
		100 K	650
		125 K	500
		250 K	250
		500 K	100
		800 K	50
		1000 K	25

USE OF COMPOSITOR SW67606:

To configure the Converter, use the available software that runs with Windows called SW67606. It is downloadable on the site www.adfweb.com and its operation is described in this document. *(This manual is referenced to the last version of the software present on our web site)*. The software works with MSWindows (XP, Vista, Seven, 8, 10 or 11; 32/64bit).

When launching the SW67606, the window below appears (Fig. 2).



Note:

It is necessary to have installed .Net Framework 4.

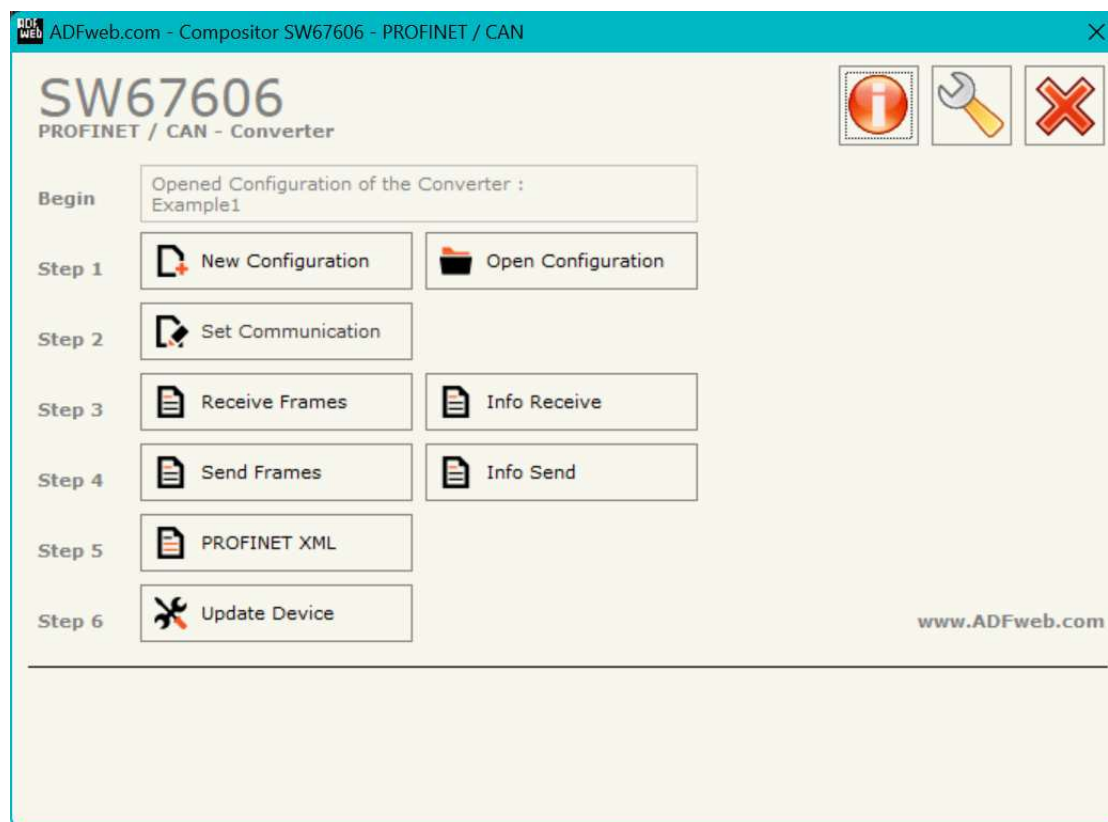


Figure 2: Main window for SW67606

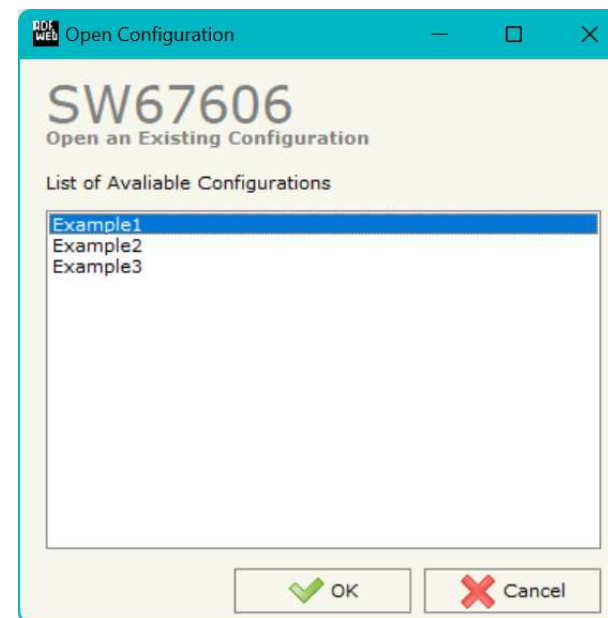
NEW CONFIGURATION / OPEN CONFIGURATION:

The “**New Configuration**” button creates the folder which contains the entire device’s configuration.




A device’s configuration can also be imported or exported:

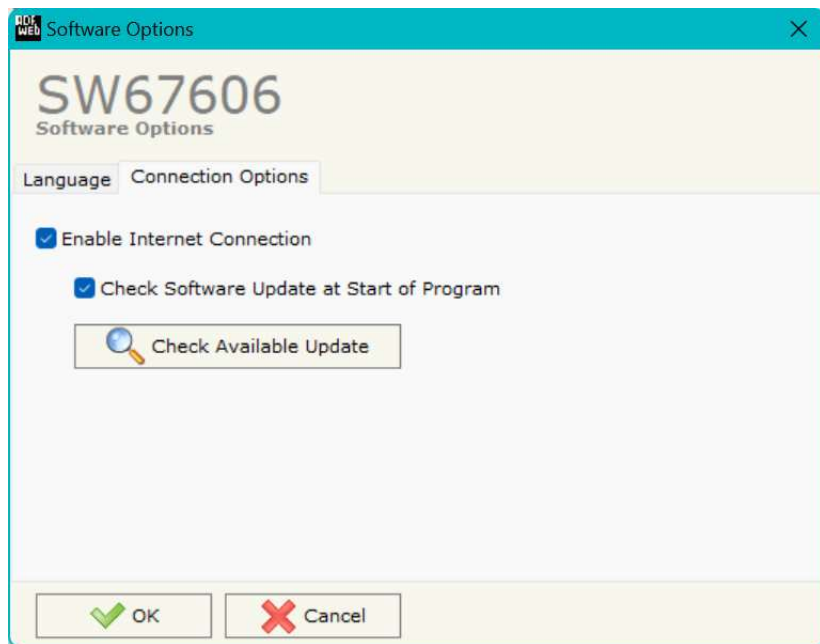
- To clone the configurations of a Programmable “PROFINET Slave / CAN - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



SOFTWARE OPTIONS:

By pressing the “**Settings**” () button there is the possibility to change the language of the software and check the updatings for the compositor.

In the section “Language” it is possible to change the language of the software.



In the section “Connection Options”, it is possible to check if there are some updatings of the software compositor in ADFweb.com website.

Checking the option “**Check Software Update at Start of Program**”, the SW67606 check automatically if there are updatings when it is launched.

SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, PROFINET and CAN. By Pressing the **"Set Communication"** button from the main window for SW67606 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for the PROFINET and the other for the CAN.

The means of the fields for "PROFINET" are:

- In the fields **"IP ADDRESS"** insert the IP address that you want to give to the Converter;
- In the fields **"SUBNET Mask"** insert the SubNet Mask;
- In the fields **"GATEWAY"** insert the default gateway that you want to use. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;
- In the field **"Tunneling Port"** it is possible to define the port to use for the "Tunneling mode" (see page 23 for more details);
- In the field **"Send Back CAN messages"** it is possible to enable the transmission of CAN messages in a transparent mode;
- If the option **"Reply on the Tunneling Port"** is checked, the CAN messages are sent to the Tunneling Port (applicable only if the "Send back CAN messages" is enabled);
- In the field **"PROFINET Name of Station"** is possible to assign a name to the PROFINET node;
- In the fields **"PROFINET -> Gateway"** insert the number of input byte of the slave station;
- In the fields **"PROFINET <- Gateway"** insert the number of output byte of the slave station;
- In the field **"Diagnostic"** insert the starting byte of the PROFINET array where you will save the diagnostic of CAN. It is possible to enable/disable this function using the checkbox. For more informations about the diagnostic, see "Diagnostic" section on page 23.
- In the field **"En. CAN Polls"** the starting byte of PROFINET array used to enable/disable the CAN messages is defined. '0' is used to enable the message, '1' to disable it. The messages are mapped from first CAN message in reception to last CAN message in transmission. It is possible to enable/disable this function using the checkbox.

The means of the fields for the "CAN" section are:

- In the **"Baudrate"** field the CAN baudrate is defined.

Figure 3: "Set Communication" window

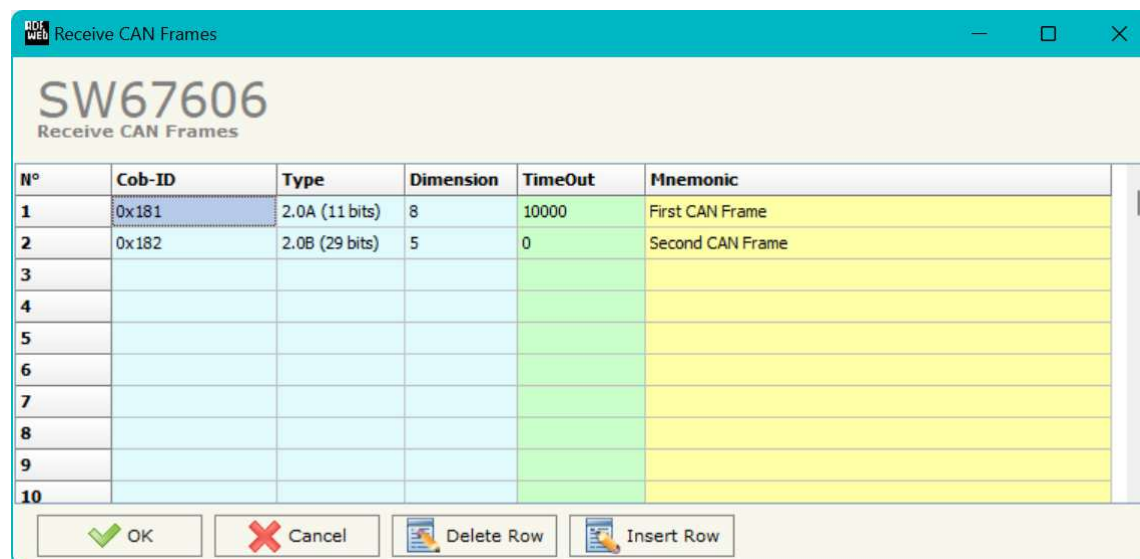
RECEIVE FRAMES:

By pressing the **Receive Frames** button from the main window for SW67606 (Fig. 2) the "Receive CAN Frames" window appears (Fig. 4).

The COB inserted in this table contains the Output data of PROFINET. These frames are accepted by the Converter.

The data of the columns have the following meanings:

- In the field **Cob-ID** insert the COB of the CAN frame;
- In the field **Type** is possible to select which type of CAN packet use for this Cob-ID; or 2.0A (11 bits) or 2.0B (29 bits);
- In the field **Dimension** insert the number of byte of the COB (from 1 to 8);
- The field **TimeOut** is used for put at zero the data into PROFINET if the CAN frame don't arrives with a frequency less than the time expressed in the field. If the value in the field is 0, means that you don't want to use this feature, and so the value is never deleted;
- In the field **Mnemonic** it is possible to insert a brief description.



N°	Cob-ID	Type	Dimension	TimeOut	Mnemonic
1	0x181	2.0A (11 bits)	8	10000	First CAN Frame
2	0x182	2.0B (29 bits)	5	0	Second CAN Frame
3					
4					
5					
6					
7					
8					
9					
10					

Figure 4: "Receive CAN Frames" window

INFO RECEIVE:

By pressing the “**Info Receive**” button from the main window for SW67606 (Fig. 2) the “Receive CAN Frames Info” window appears (Fig. 5).

- In the “**COB ID**” field there are the COB ID that you have inserts in the “Receive CAN Frames” window;
- In the “**Bytes**” field select the correspondence of the byte in PROFINET.

For Example:

Byte 1 of frame CAN go to byte 0 in PROFINET: the first byte of CAN frame is 0x11 in the byte 0 of PROFINET I can read 0x11.

Receive CAN Frames Info

SW67606

Receive CAN Frames Info

COB ID	Bytes
0x181	Byte 1 of frame CAN go to byte 0 of PROFINET
0x182	Byte 2 of frame CAN go to byte 1 of PROFINET
	Byte 3 of frame CAN go to byte 2 of PROFINET
	Byte 4 of frame CAN go to byte 3 of PROFINET
	Byte 5 of frame CAN go to byte 4 of PROFINET
	Byte 6 of frame CAN go to byte 5 of PROFINET
	Byte 7 of frame CAN go to byte 6 of PROFINET
	Byte 8 of frame CAN go to byte 7 of PROFINET

OK Cancel

Figure 5: “Receive CAN Frames Info” window

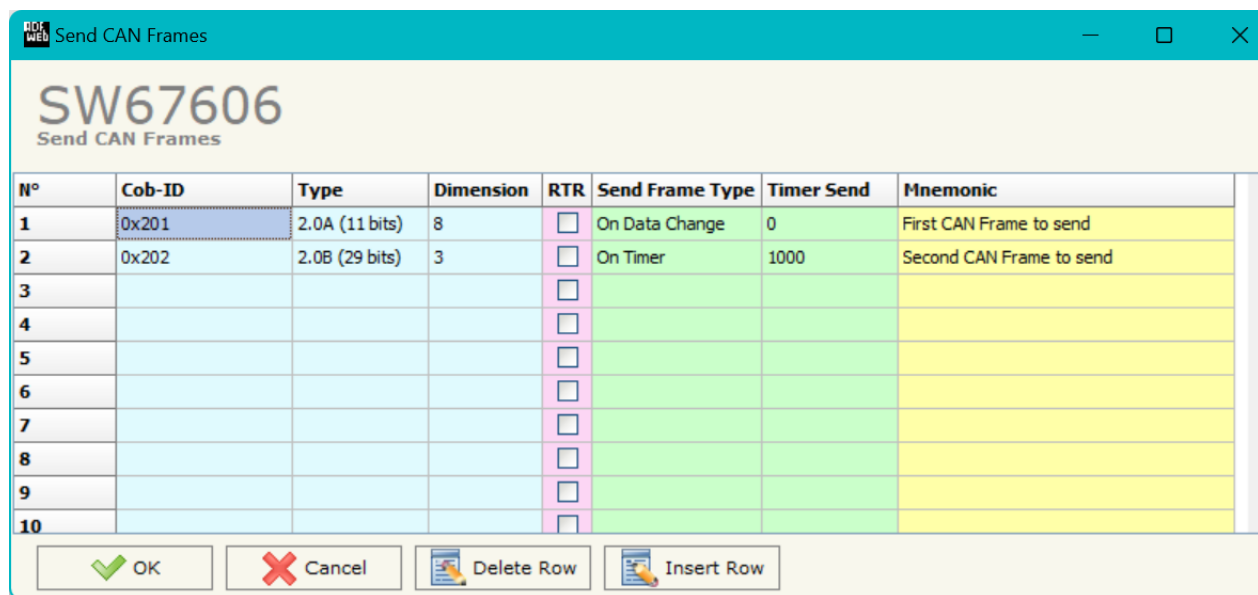
SEND FRAMES:

By pressing the **"Send Frames"** button from the main window for SW67606 (Fig. 2) the "Send CAN frames" window appears (Fig. 6).

The COB inserted in this table contains the Input data of PROFINET. These frames are sent by the Converter.

The data of the columns have the following meanings:

- In the field **"Cob-ID"** insert the COB of the CAN frame;
- In the field **"Type"** is possible to select which type of CAN packet use for this Cob-ID; or 2.0A (11 bits) or 2.0B (29 bits);
- In the field **"Dimension"** insert the number of byte of the COB (from 1 to 8);
- If the field **"RTR"** is checked, the RTR bit for the selected frame is enabled;
- In the field **"Send Frame Type"** is possible to select when send the CAN frame. There are two options: the first is **"On Data Change"**, the frame is sent when the data changes; the second is **"On Times"** and the frame is send cyclically;
- In the field **"Timer Send"** insert the interval used for the "Send Frame Type On Times". The time is in milliseconds;
- In the field **"Mnemonic"** it is possible to insert a brief description.



N°	Cob-ID	Type	Dimension	RTR	Send Frame Type	Timer Send	Mnemonic
1	0x201	2.0A (11 bits)	8	<input type="checkbox"/>	On Data Change	0	First CAN Frame to send
2	0x202	2.0B (29 bits)	3	<input type="checkbox"/>	On Timer	1000	Second CAN Frame to send
3				<input type="checkbox"/>			
4				<input type="checkbox"/>			
5				<input type="checkbox"/>			
6				<input type="checkbox"/>			
7				<input type="checkbox"/>			
8				<input type="checkbox"/>			
9				<input type="checkbox"/>			
10				<input type="checkbox"/>			

Figure 6: "Send CAN Frames" window

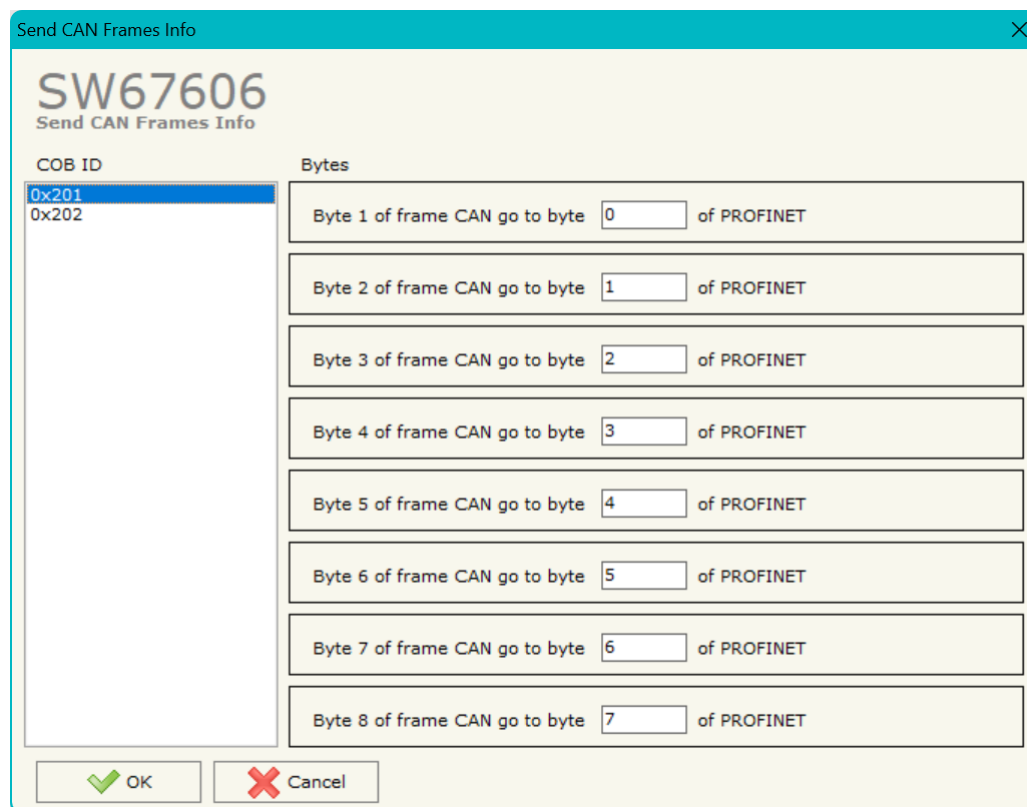
INFO SEND:

By pressing the **"Info Send"** button from the main window for SW67606 (Fig. 2) the "Send CAN Frames Info" window appears (Fig. 7).

- In the **"COB ID"** field there are the COB ID that you have inserts in the "Send CAN frames" window;
- In the field **"Bytes"** select the correspondence of the byte in PROFINET.

For Example:

Byte 1 of frame CAN is byte 0 in PROFINET: the byte 0 of PROFINET is 0x22, the first byte of CAN frame with COB=0x201 will be 0x22.



Send CAN Frames Info

SW67606
Send CAN Frames Info

COB ID	Bytes
0x201	Byte 1 of frame CAN go to byte 0 of PROFINET
0x202	Byte 2 of frame CAN go to byte 1 of PROFINET
	Byte 3 of frame CAN go to byte 2 of PROFINET
	Byte 4 of frame CAN go to byte 3 of PROFINET
	Byte 5 of frame CAN go to byte 4 of PROFINET
	Byte 6 of frame CAN go to byte 5 of PROFINET
	Byte 7 of frame CAN go to byte 6 of PROFINET
	Byte 8 of frame CAN go to byte 7 of PROFINET

OK Cancel

Figure 7: "Send Frames Info" window

XML FILE:

By Pressing the "**PROFINET XML**" button from the main window for SW67606 (Fig. 2) it is possible to generate the xml file to be imported into the master PROFINET.

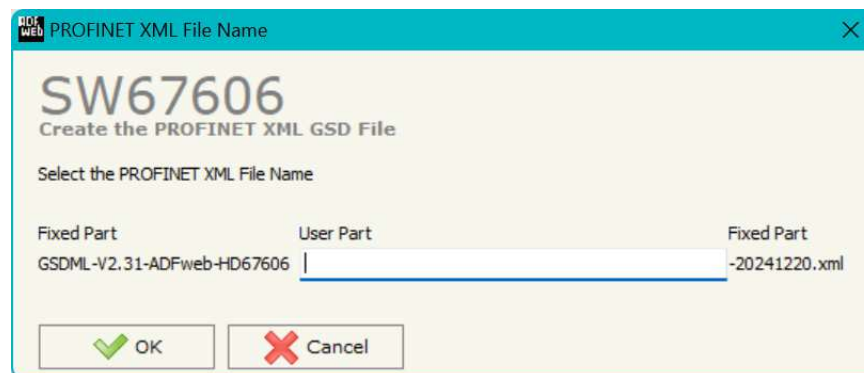


Figure 8: "PROFINET XML File Name" window

UPDATE DEVICE:

By pressing the **"Update Device"** button, it is possible to load the created Configuration into the device; and also the Firmware, if necessary. This by using the Ethernet port.

If you don't know the actual IP address of the device you have to use this procedure:

- Turn OFF the Device;
- Put Dip1 of 'Dip-Switch A' in ON position;
- Turn ON the device
- Connect the Ethernet cable;
- Insert the IP **"192.168.2.205"**;
- Select which operations you want to do;
- Press the **"Execute update firmware"** button to start the upload;
- When all the operations are "OK" turn OFF the Device;
- Put Dip1 of 'Dip-Switch A' in OFF position;
- Turn ON the device.

If you know the actual IP address of the device, you have to use this procedure:

- Turn ON the Device with the Ethernet cable inserted;
- Insert the actual IP of the Converter;
- Select which operations you want to do;
- Press the **"Execute update firmware"** button to start the upload;
- When all the operations are "OK" the device automatically goes at Normal Mode.

At this point the configuration/firmware on the device is correctly updated.



Figure 9: "Update device" windows


Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67606 device.


Warning:

If Fig. 10 appears when you try to do the Update try these points before seeking assistance:

- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- Check the LAN settings;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven, Vista, 8 or 10, 11 make sure that you have the administrator privileges;
- In case you have to program more than one device, using the "UDP Update", you have to cancel the ARP table every time you connect a new device on Ethernet. For do this you have to launch the "Command Prompt" and write the command "arp -d". Pay attention that with Windows Vista, Seven, 8, 10, 11 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

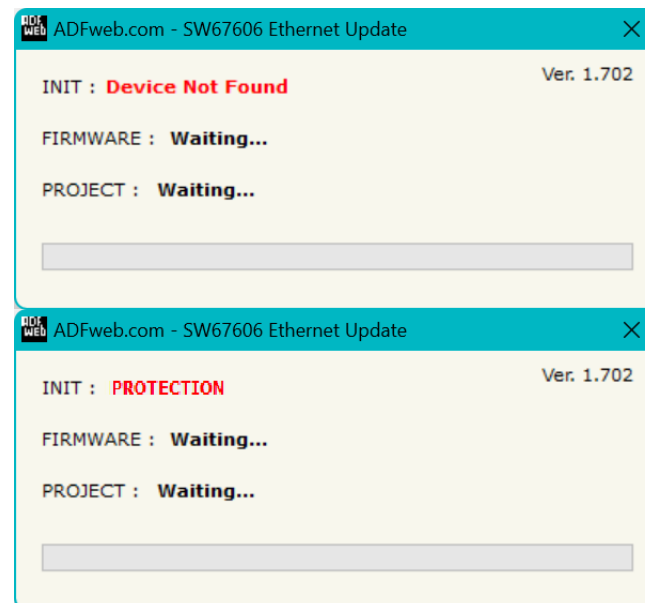


Figure 10: "Error" window


Warning:

In the case of HD67606 you have to use the software "HD67606": www.adfweb.com/download/filefold/SW67606.zip.

CAN DIAGNOSTIC OVER PROFINET:

It is possible to save the CAN Diagnostic on Output PROFINET array using the field "Diagnostic" of the section "Set Communication".

In this case, the status of each CAN message in reception defined in the section "Receive Frames" is saved starting from the byte of the PROFINET array defined in the section "Set Communication".

Each bit will represent the status of a CAN message:

- If the CAN message is received, the status bit is put to '0';
- If the CAN message is not received in the defined timeout, the status bit is put to '1'.

SENDING ASYNCHRONOUS CAN MESSAGES FROM ETHERNET

The converter allows to send asynchronous CAN messages (for example a NMT message) directly from Ethernet to CANopen. The Ethernet message to send to the converter must have this structure:

Byte Number	Description
1÷4	COB-ID of the CAN message to send
5÷(4+n)	Data of the CAN message

n=Number of Byte to Write

To choose the type of CAN (2.0A or 2.0B) of the frame that the converter will send, it is necessary to put the most significant bit of the byte 1 to:

- 0: CAN 2.0A;
- 1: CAN 2.0B.

To send a CAN message from Ethernet to CAN, it is necessary to send the UDP message to the tunneling port of the converter.

Example:

We want to send the CAN message with these characteristics:
CAN Type=2.0A; Frame: Cob_ID=0x0000; Data=0x0105.

So the string of hexadecimal numbers to be send to the converter is: [00][00][00][00][01][05].



Note:

After sending the first CAN messages, if the "Send back CAN messages" option is activated, the CAN messages are sent via Ethernet (UDP messages) with the same structure.

If the option "Send Back CAN messages" is not activated, it is possible to enable/disable it by sending the following UDP messages to the Tunneling Port:

Byte 0	Byte 1
0xB3	Enabling/disabling the Transparent Mode

0x01 = Function disabled

0x00 = Function enabled

If the command message is received correctly, the same message is sent back from the converter.

MECHANICAL DIMENSIONS:

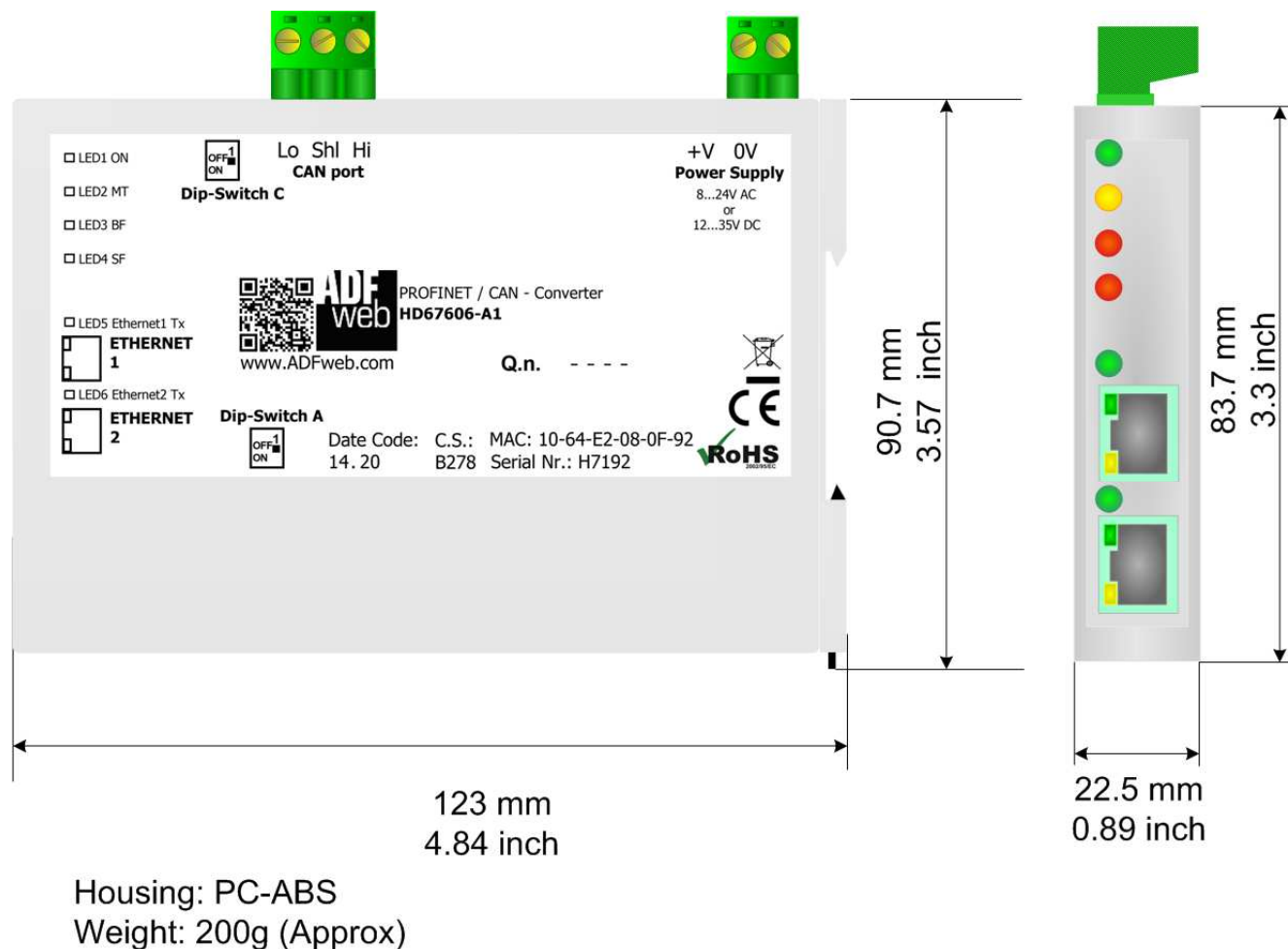
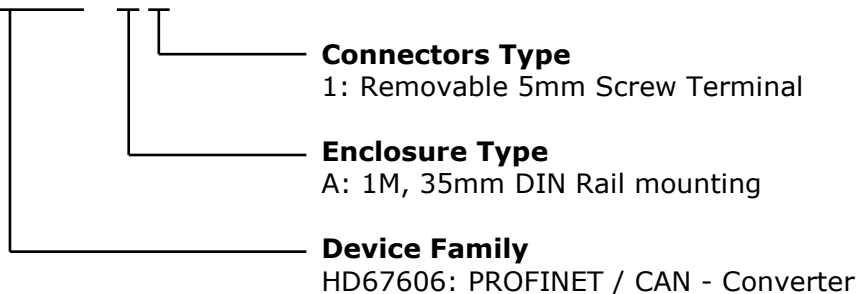


Figure 11: Mechanical dimensions scheme for HD67606-A1

ORDERING INFORMATION:

The ordering part number is formed by a valid combination of the following:

HD67606 – A 1



Order Code: **HD67606-A1** - PROFINET / CAN - Converter

ACCESSORIES:

Order Code: **AC34011** - Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V DC

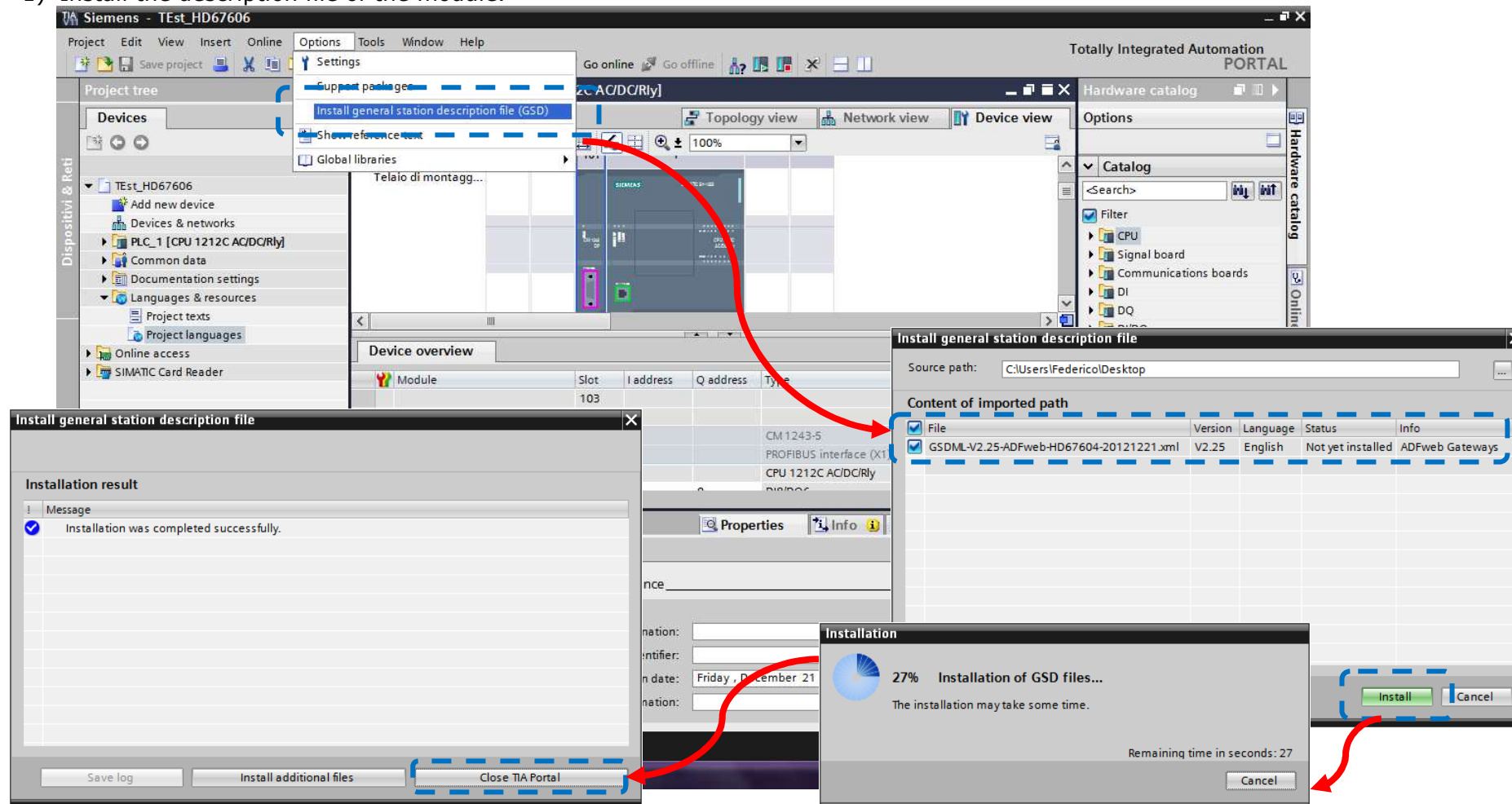
Order Code: **AC34012** - Rail DIN - Power Supply 220/240V AC 50/60Hz – 24 V DC

PLC CONFIGURATION:

The configuration and commissioning of the PROFINET Converter as described on the following pages was accomplished with the help of the TIA Portal V12-software by Siemens. In the case of using a control system from another supplier, refer to attend to the associated documentation.

These are the steps to follow:

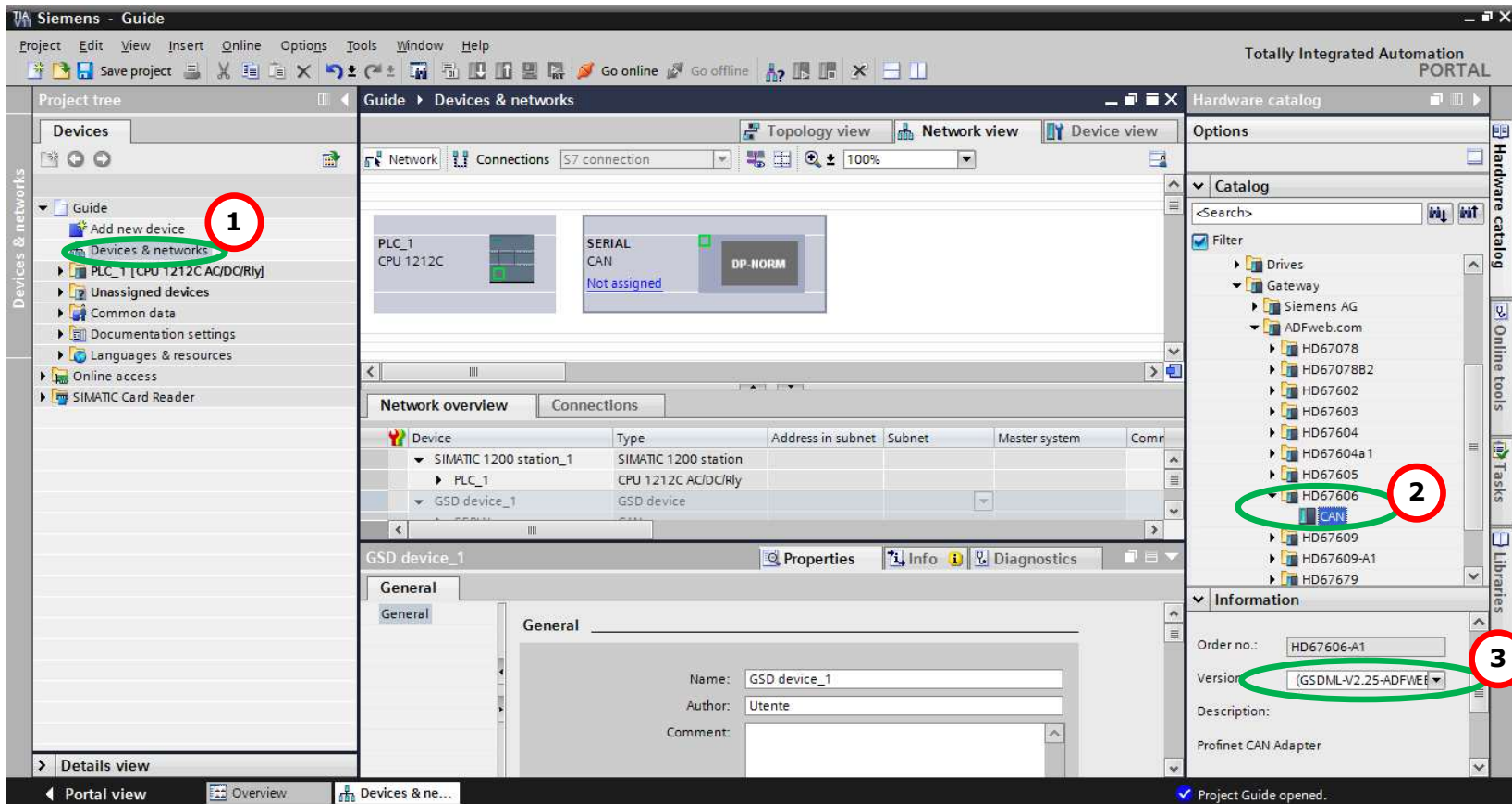
- 1) Install the description file of the module.



- 2) Press the **"Devices and networks"** button (1), from the right drop-down menu, under "Other field devices→PROFINET IO→Gateway→ADFweb.com→HD67606" double click on "CAN" module (2).

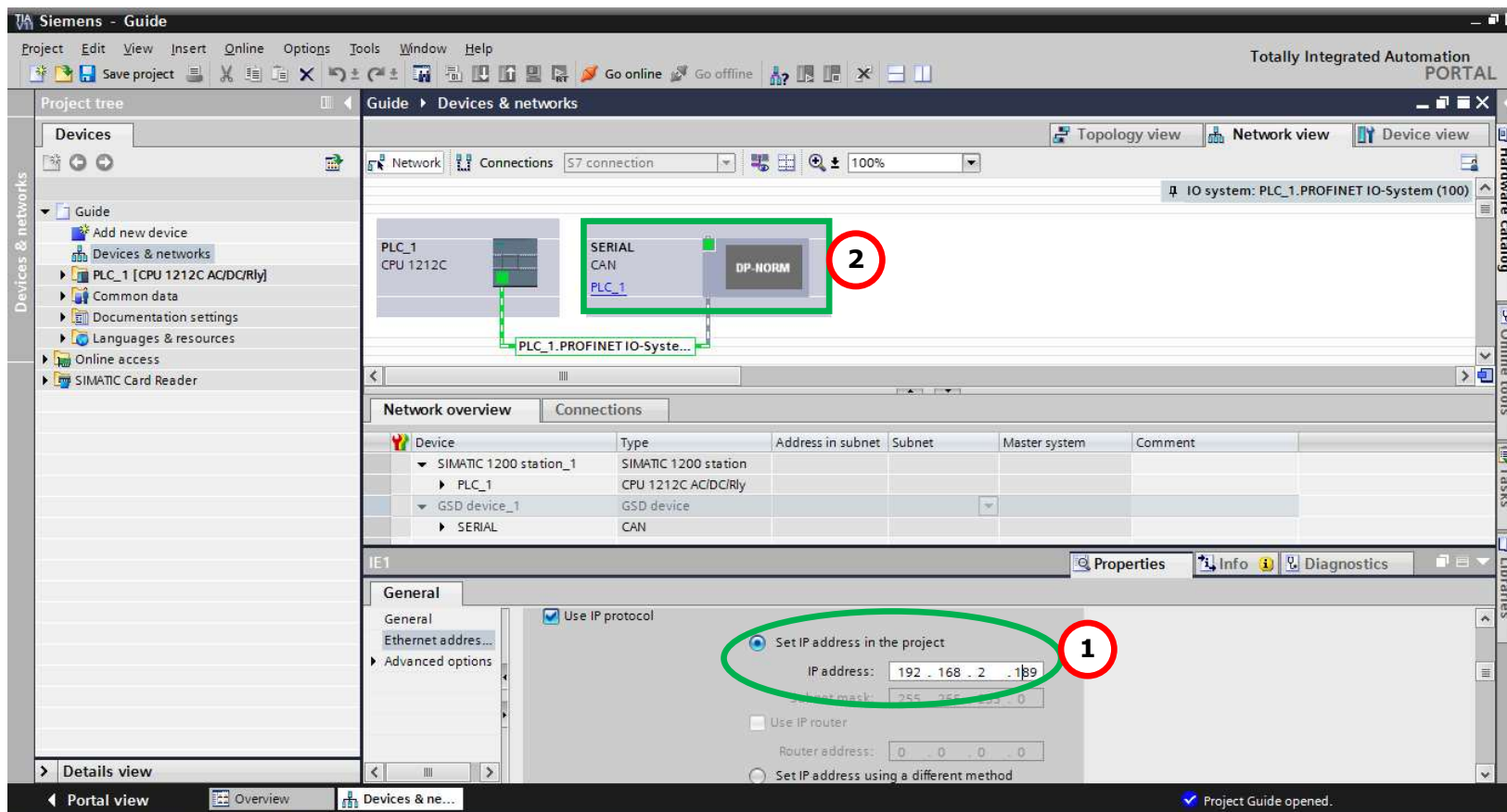

Note:

If you have installed more than one xml file, go to the Information section and in the "Version" field select the correct xml file (3), before double clicking on "CAN" module

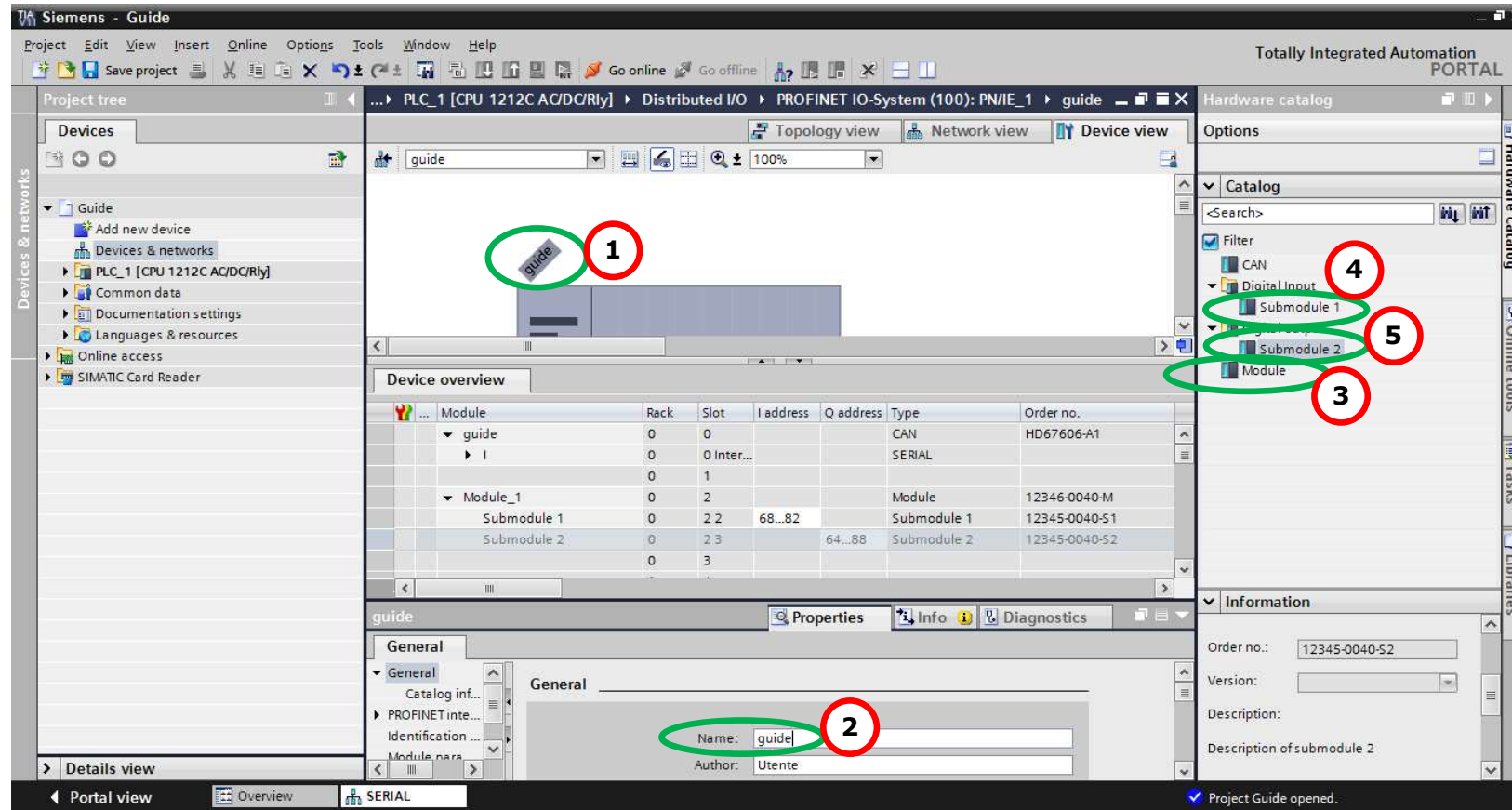


The screenshot shows the Siemens SIMATIC Manager software interface. The Project tree on the left has a red circle (1) around the 'Devices & networks' button. The Hardware catalog on the right shows a tree structure with 'CAN' modules. A red circle (2) highlights the 'CAN' module. The 'Information' section at the bottom right shows a dropdown menu for 'Version' with a red circle (3) around it, indicating the selection of the correct XML file.

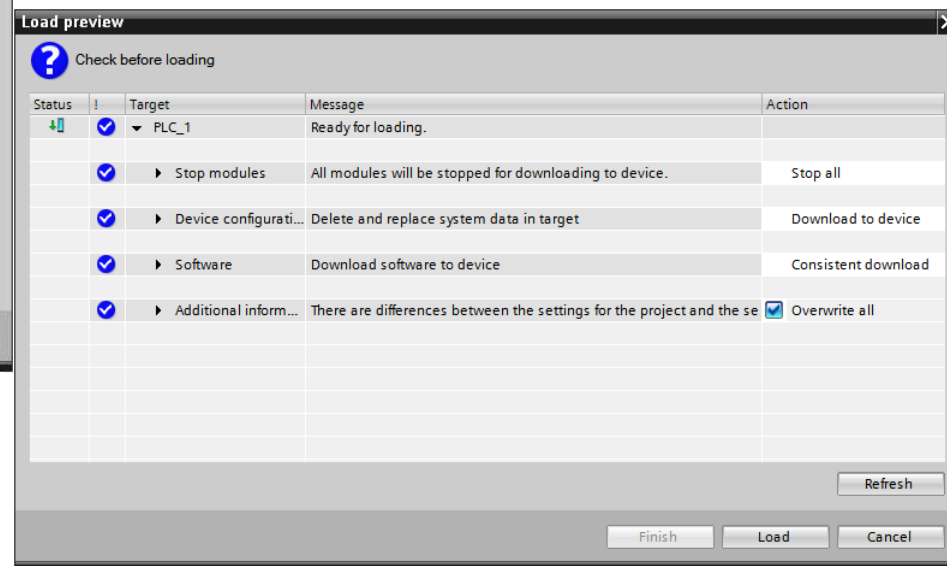
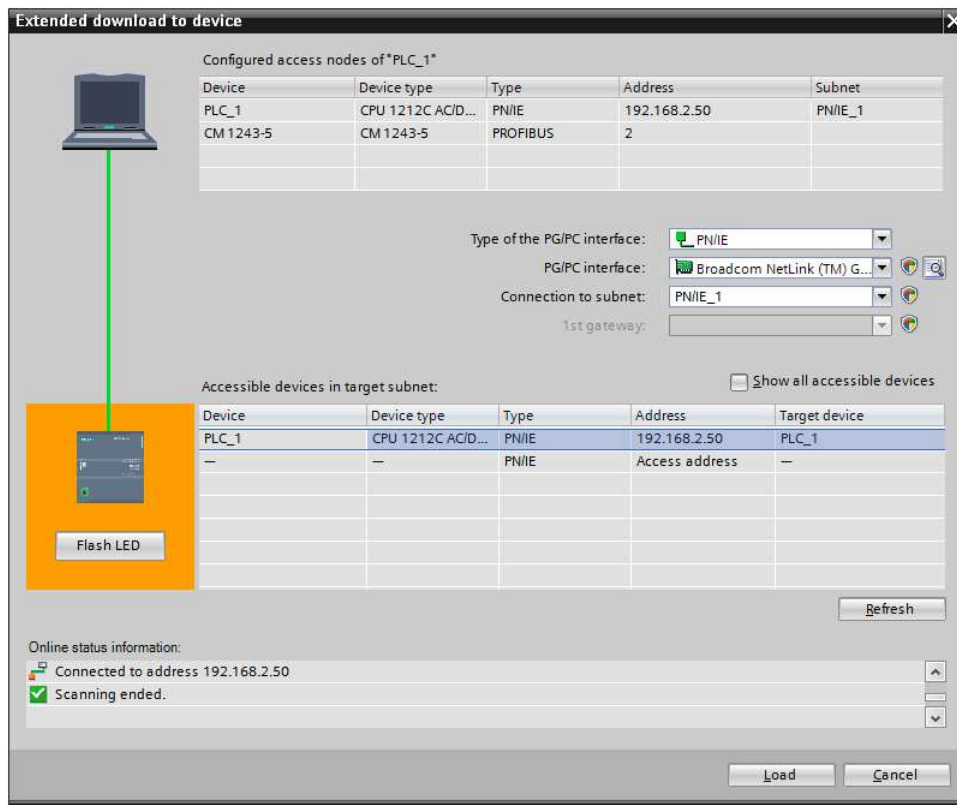
- 3) Connect the PLC to the HD67606 module by drawing the Ethernet wire between the two Ethernet ports. Then assign the IP Address **(1)** defined in the Compositor_SW67606 to the HD67606. Then double click the "Module" **(2)**.



- 4) Then double click on the "Serial" label **(1)** and in the field name change it accordingly to the name defined in the Compositor_SW67606 **(2)**. Then add the main module "Module" and the sub-modules of "Digital Input" and "Digital Output" by double click on the three items in this order "Module" **(3)**, "Submodule 1" **(4)**, "Submodule 2" **(5)**.



5) Load the configuration into the PLC.



DISCLAIMER:

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OTHER REGULATIONS AND STANDARDS:**WEEE INFORMATION**

Disposal of old electrical and electronic equipment (as in the European Union and other European countries with separate collection systems).

— This symbol on the product or on its packaging indicates that this product may not be treated as household rubbish. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. If the product is disposed correctly, you will help prevent potential negative environmental factors and impact of human health, which could otherwise be caused by inappropriate disposal. The recycling of materials will help to conserve natural resources. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE

The device respects the 2002/95/EC Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (commonly referred to as Restriction of Hazardous Substances Directive or RoHS).

CE MARKING

The product conforms with the essential requirements of the applicable EC directives.

WARRANTIES AND TECHNICAL SUPPORT:

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at www.adfweb.com. Otherwise contact us at the address support@adfweb.com

RETURN POLICY:

If while using your product you have any problem and you wish to exchange or repair it, please do the following:

- Obtain a Product Return Number (PRN) from our internet support at www.adfweb.com. Together with the request, you need to provide detailed information about the problem.
- Send the product to the address provided with the PRN, having prepaid the shipping costs (shipment costs billed to us will not be accepted).

If the product is within the warranty of twelve months, it will be repaired or exchanged and returned within three weeks. If the product is no longer under warranty, you will receive a repair estimate.



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