

User Manual

Revision 1.000
English

OPC UA Server / CANopen - Converter

(Order Code: HD67B34-B2)

for Website information:

<http://www.adfweb.com/?Product=HD67B34>

for Price information:

<http://www.adfweb.com/?Price=HD67B34-B2>

Benefits and Main Features:

- ⚡ Triple electrical isolation
- ⚡ Power Supply 18...35V DC and 8...24 V AC
- ⚡ Temperature range: -40°C/+85°C (-40°F/+185°F)



For others OPC UA Server devices, see also the following links:

OPC UA Server from/to ...

- www.adfweb.com?Product=HD67B26
- www.adfweb.com?Product=HD67B27
- www.adfweb.com?Product=HD67B28
- www.adfweb.com?Product=HD67B29
- www.adfweb.com?Product=HD67B30
- www.adfweb.com?Product=HD67B31
- www.adfweb.com?Product=HD67B32
- www.adfweb.com?Product=HD67B33
- www.adfweb.com?Product=HD67B35
- www.adfweb.com?Product=HD67B36
- www.adfweb.com?Product=HD67B37
- www.adfweb.com?Product=HD67B38
- www.adfweb.com?Product=HD67B39
- www.adfweb.com?Product=HD67B40
- www.adfweb.com?Product=HD67B41
- www.adfweb.com?Product=HD67B42
- www.adfweb.com?Product=HD67B43
- www.adfweb.com?Product=HD67B44
- www.adfweb.com?Product=HD67B45
- www.adfweb.com?Product=HD67B46
- www.adfweb.com?Product=HD67B47
- www.adfweb.com?Product=HD67B48

- (Serial)
- (Modbus Master)
- (Modbus Slave)
- (Modbus TCP Master)
- (Modbus TCP Slave)
- (Bacnet Master)
- (Bacnet Slave)
- (CAN)
- (DeviceNet Master)
- (DeviceNet Slave)
- (DMX)
- (EtherNet/IP Master)
- (EtherNet/IP Slave)
- (J1939)
- (KNX)
- (MQTT)
- (NMEA0183)
- (NMEA2000)
- (PROFINET Master)
- (PROFINET Slave)
- (SNMP Manager)
- (SNMP Agent)

Do you have an your customer protocol?

See the following links:

www.adfweb.com?Product=HD67003

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

Ask it to the following link:

www.adfweb.com?Cmd=helpme



User Manual

INDEX:

	Page
INDEX	2
UPDATED DOCUMENTATION	2
REVISION LIST	2
WARNING	2
TRADEMARKS	2
SECURITY ALERT	3
EXAMPLE OF CONNECTION	4
CONNECTION SCHEME	5
CHARACTERISTICS	6
CONFIGURATION	6
POWER SUPPLY	7
FUNCTION MODES	8
LEDS	9
CAN	10
ETHERNET	11
USE OF COMPOSITOR SW67B34	12
NEW PROJECT / OPEN PROJECT	13
SOFTWARE OPTIONS	14
SET COMMUNICATION	16
OPC UA ACCESS	18
SET SDO SERVER	19
SET SDO CLIENT	20
SET PDO ACCESS	22
EDS FILE	23
UPDATE DEVICE	24
MECHANICAL DIMENSIONS	26
ORDERING INFORMATIONS	27
ACCESSORIES	27
DISCLAIMER	28
OTHER REGULATIONS AND STANDARDS	28
WARRANTIES AND TECHNICAL SUPPORT	29
RETURN POLICY	29

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
1.000	13/03/2019	Tf	All	First release version

WARNING:

ADFweb.com reserves the right to change information in this manual about our product without warning.
ADFweb.com is not responsible for any error this manual may contain.

TRADEMARKS:

All trademarks mentioned in this document belong to their respective owners.

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:

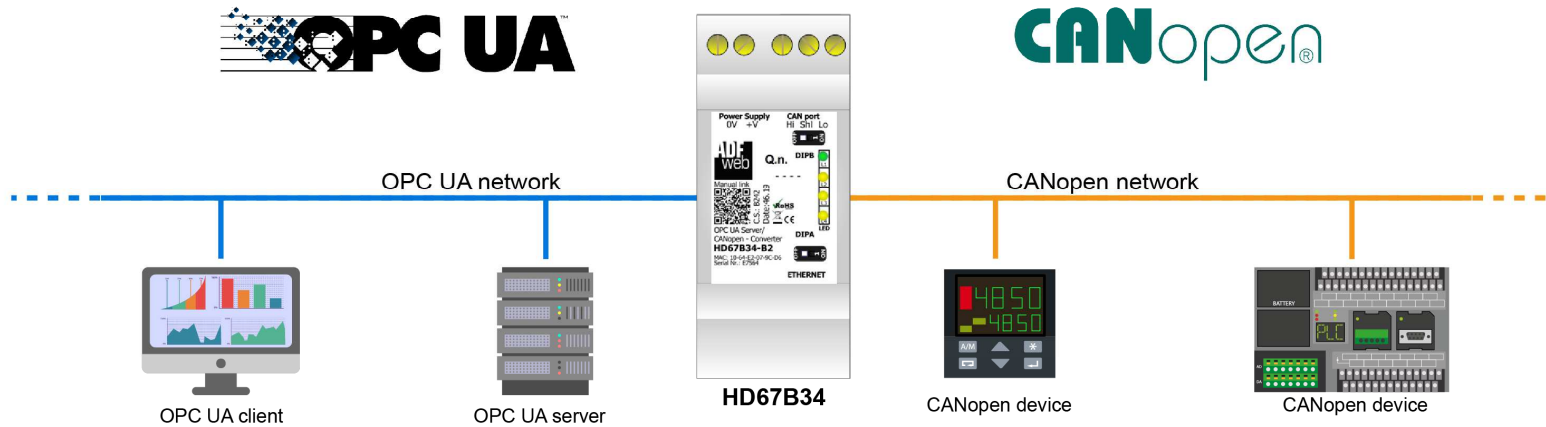


This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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:



ADFweb ADFweb.com srl
 Tel. +39 0438 309 131 - Fax +39 0438 492 099
 info@adfweb-com - www.adfweb.com

CONNECTION SCHEME:

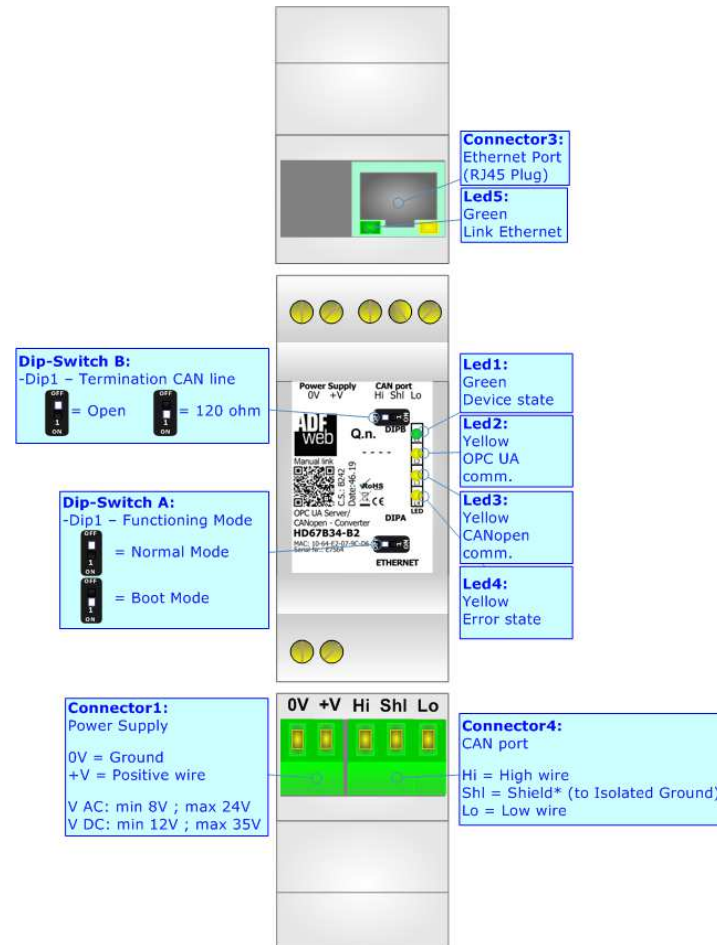


Figure 1: Connection scheme for HD67B34-B2

CHARACTERISTICS:

The HD67B34-B2 is a OPC UA Server / CANopen converter.

It allows the following characteristics:

- Up to 1500 bytes in reading and 1500 bytes in writing;
- Two-directional information between CANopen and OPC UA;
- 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 SW67B34 software on your PC in order to perform the following:

- Define the parameter of OPC UA;
- Define the parameter of CANopen line;
- Define the list of OPC UA servers connected to the converter;
- Define the list of CANopen objects accessible on CANopen side;
- Update the device.

POWER SUPPLY:

The devices can be powered between a wide range of tensions. For more details see the two tables below.

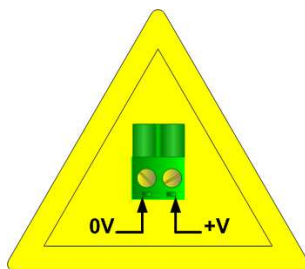
	VAC		VDC	
	Vmin	Vmax	Vmin	Vmax
HD67B34-B2	8V	24V	12V	35V

Consumption at 24V DC:

Device	W/VA
HD67B34-B2	4



Caution: Not reverse the polarity power



HD67B34-B2



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

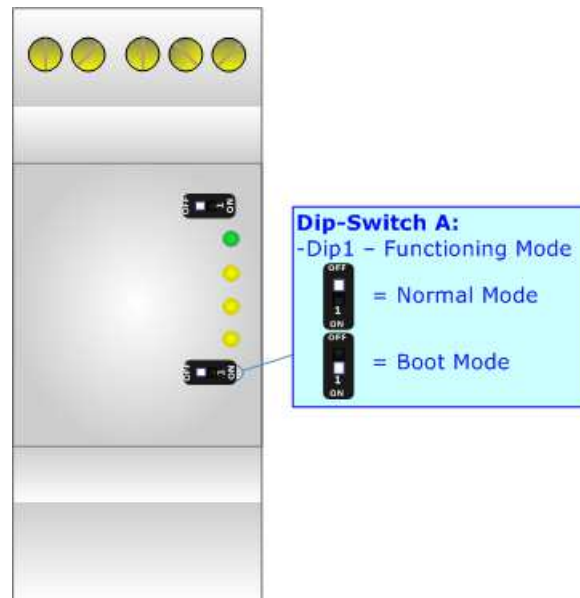
FUNCTION MODES:

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

- The first, with Dip1 in Off position (factory setting), is used for the normal working of the device.
- The second, with Dip1 in On position, is used for upload the Project/Firmware.

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

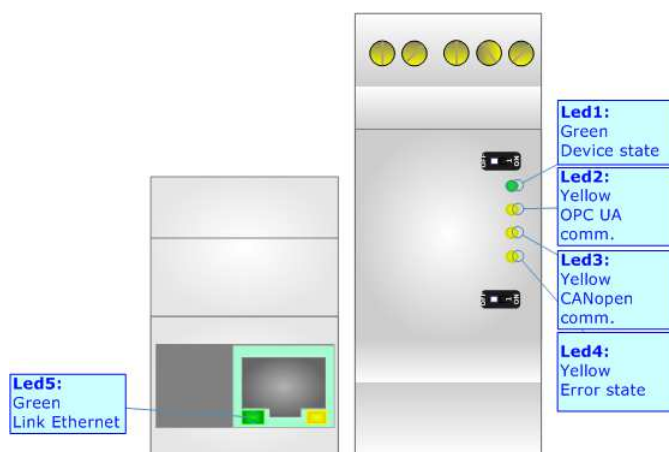
According to the functioning mode, the LEDs will have specifics functions (see 'LEDS' section).



LEDS:

The device has got five 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: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
2: OPC UA comm. (yellow)	Flashing: OPC UA request OFF: No OPC UA request	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: CANopen comm. (yellow)	Flashing: CANopen communication OFF: No CANopen communication	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (yellow)	ON: An error in the gateway has occurred OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Link Ethernet (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected



CAN:

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

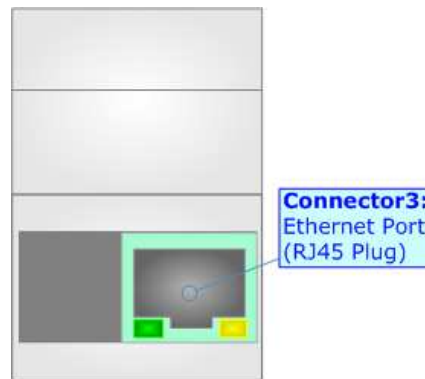


Cable characteristics:

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

ETHERNET:


The Ethernet connection must be made using Connector3 of HD67B34-B2 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.



USE OF COMPOSITOR SW67B34:

To configure the Converter, use the available software that runs with Windows called SW67B34. 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; 32/64bit).

When launching the SW67B34, the window below appears (Fig. 2).

 **Note:**
It is necessary to have installed .Net Framework 4.

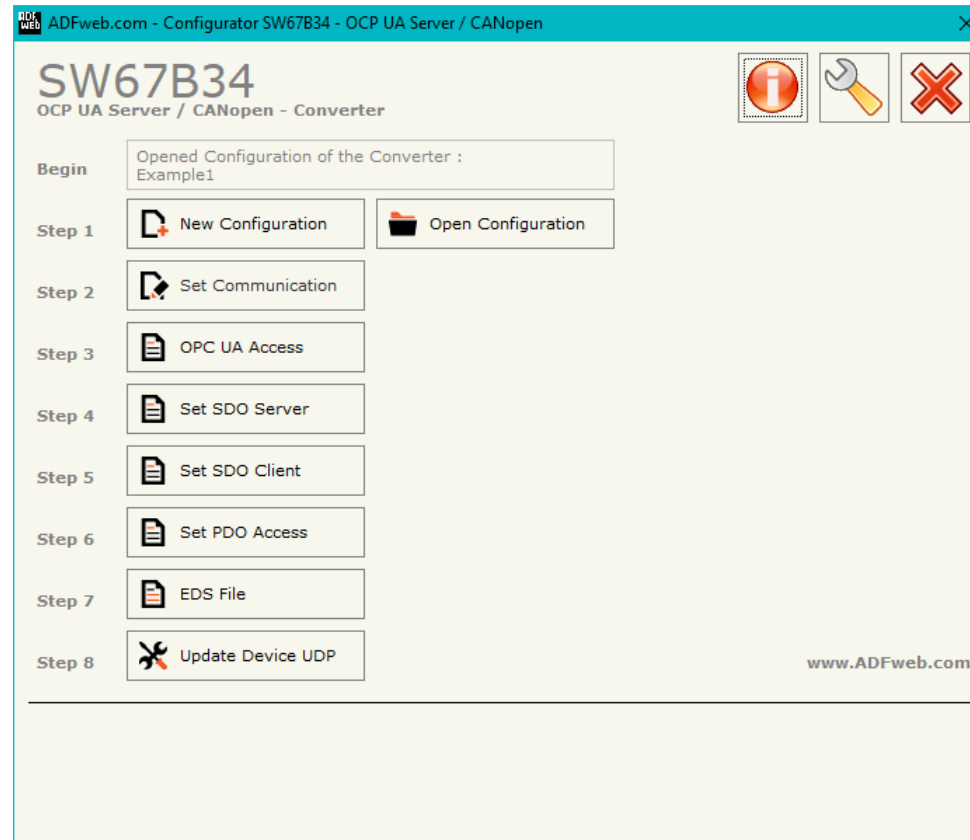
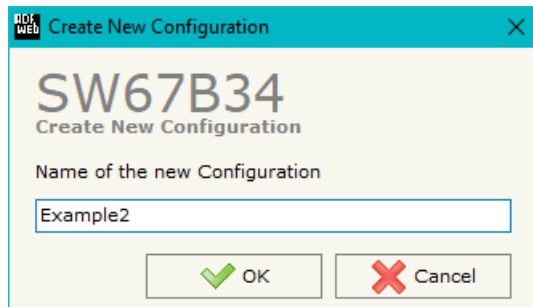


Figure 2: Main window for SW67B34

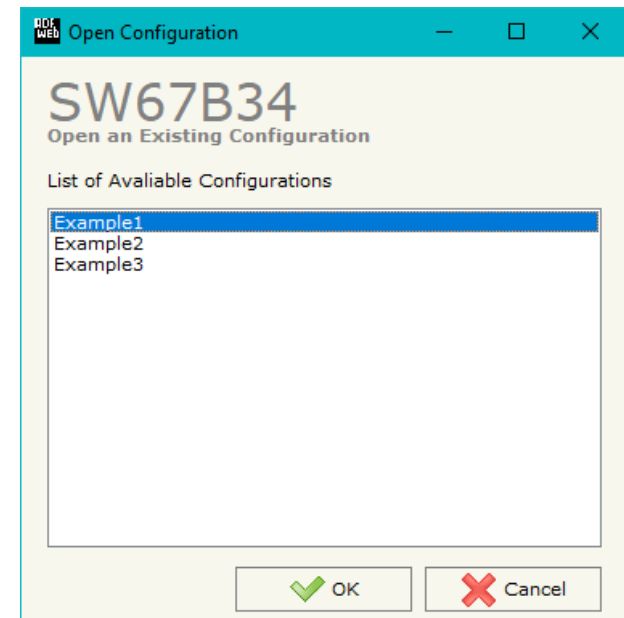
NEW CONFIGURATION / OPEN CONFIGURATION:

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




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

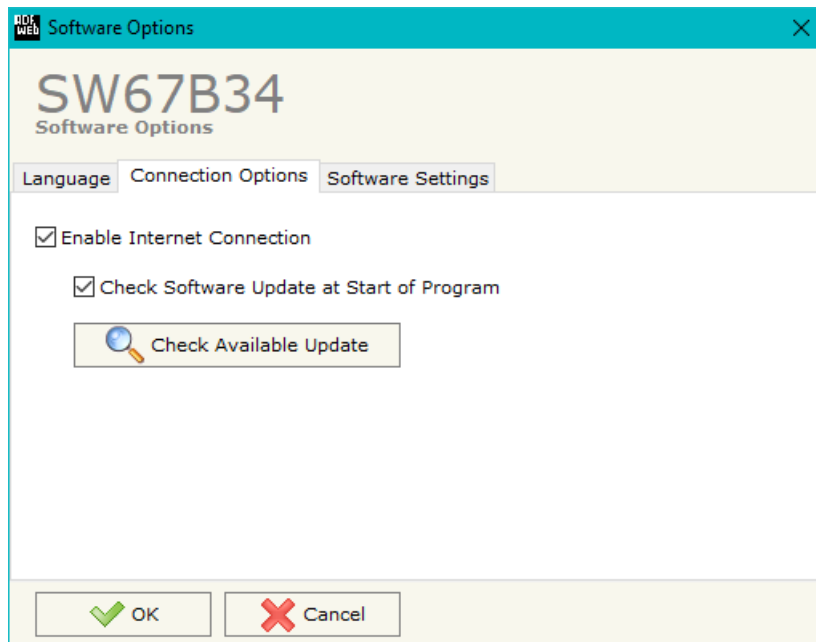
- To clone the configurations of a programmable “OPC UA Server / CANopen - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate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



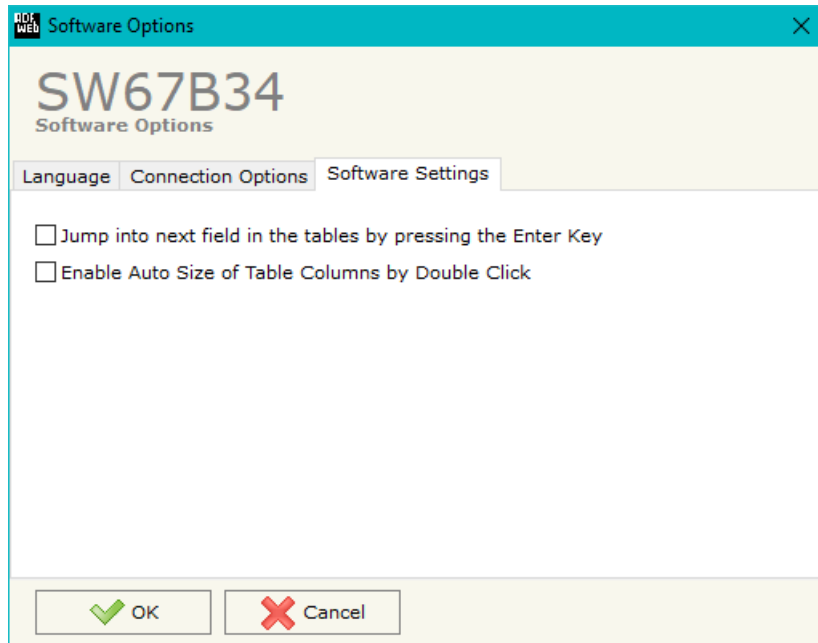
SOFTWARE OPTIONS:

By pressing the “**Settings**” () button there is the possibility to change the language of the software and check the updates 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 updates of the software compositor in ADFweb.com website. Checking the option “**Check Software Update at Start of Program**”, the SW67B34 check automatically if there are updates when it is launched.



In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, OPC UA Server and CANopen.

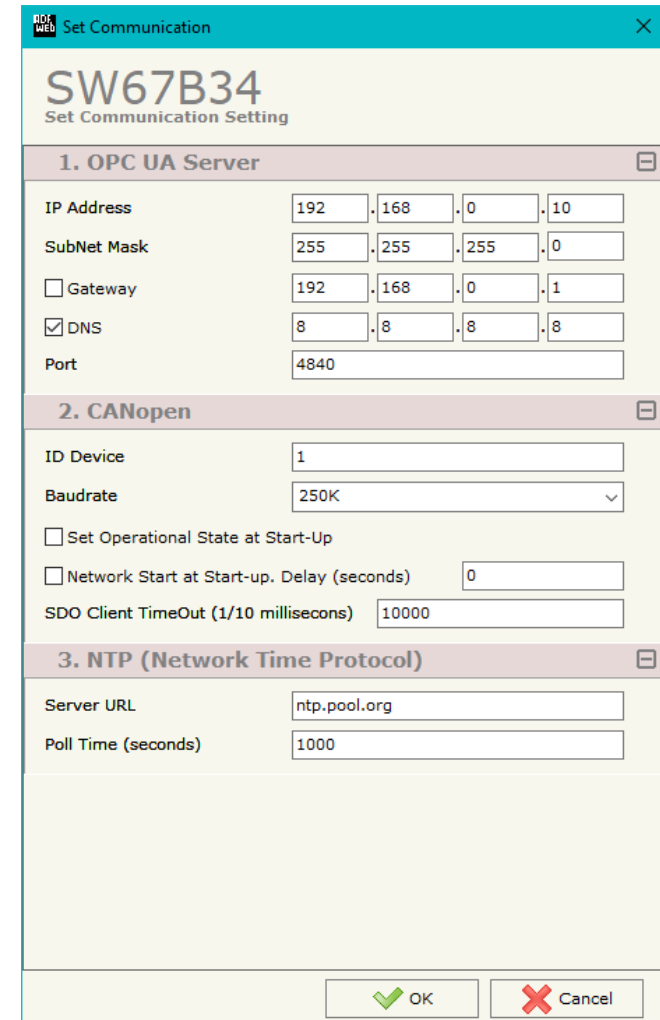
By Pressing the **"Set Communication"** button from the main window for SW67B34 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "OPC UA Server" are:

- In the field **"IP Address"** the IP address for OPC UA side of the converter is defined;
- In the field **"SubNet Mask"** the SubNet Mask for OPC UA side of the converter is defined;
- In the field **"Gateway"** the default gateway of the net is defined. 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 **"DNS"** the IP Address of the DNS server is defined. This feature can be enabled or disabled pressing the Check Box field;
- In the field **"Port"** the port of OPC UA Server is defined.

The means of the fields for "CANopen" are:

- In the field **"Device ID"** the ID for the CANopen side is defined;
- In the field **"Baudrate"** the baudrate for the CANopen is defined;
- In the field **"Set Operational State at Start-up"** the state of the CANopen is defined. I.e. if it is checked the board starts in Operational State, else it starts in Pre-Operational;
- In the field **"Network Start at Start-up"** the state of the network CANopen is defined. I.e. if it is checked the board sends a command to set the Operational State for all the devices present in the network;
- In the field **"Delay"** the delay before sending the network start command for the CANopen is defined;
- If the field **"SDO Client TimeOut (1/10 ms)"** the timeout for the SDO requests is defined. It is the maximum time that the device attends for the answer from the Slave interrogated.



The screenshot shows the 'Set Communication' window for device SW67B34. It is organized into three main sections:

- 1. OPC UA Server:** Contains fields for IP Address (192.168.0.10), SubNet Mask (255.255.255.0), Gateway (192.168.0.1), DNS (8.8.8.8), and Port (4840). There are checkboxes for 'Gateway' (unchecked) and 'DNS' (checked).
- 2. CANopen:** Contains fields for ID Device (1), Baudrate (250K), and SDO Client TimeOut (1/10 milliseconds) (10000). There are checkboxes for 'Set Operational State at Start-Up' (unchecked) and 'Network Start at Start-up. Delay (seconds)' (0).
- 3. NTP (Network Time Protocol):** Contains fields for Server URL (ntp.pool.org) and Poll Time (seconds) (1000).

At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 3: "Set Communication" window

The means of the fields for "NTP (Network Time Protocol)" are:

- In the field "**Server URL**" the URL or the IP Address of the NTP Server is defined;
- In the field "**Poll Time (seconds)**" the polling time for the time synchronization is defined.

OPC UA ACCESS:

By Pressing the **“OPC UA Access”** button from the main window for SW67B34 (Fig. 2) the window **“OPC UA Server Access”** appears (Fig. 4). This section is used to define the list of OPC UA variables to read/write.

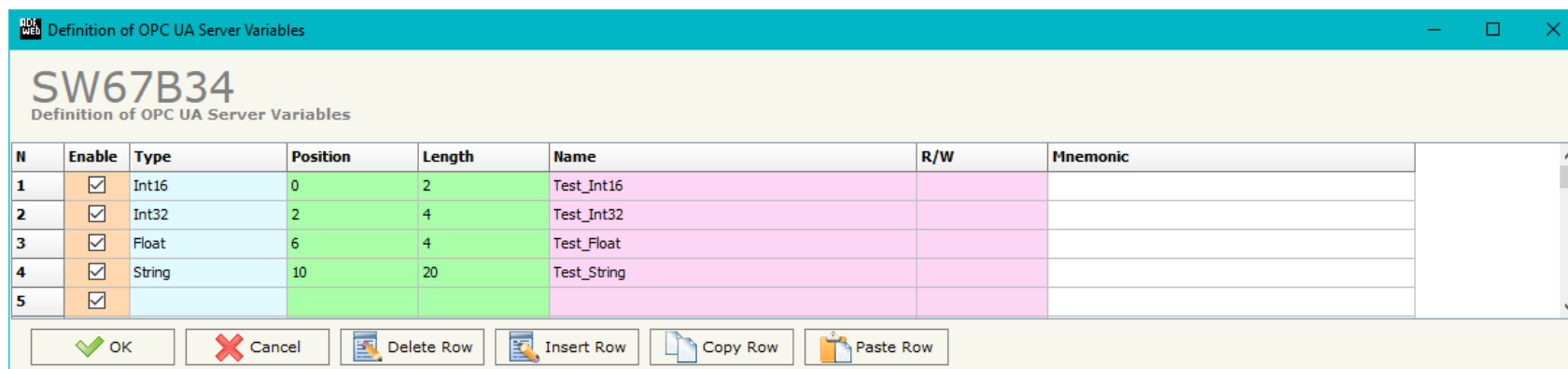


Figure 4: **“OPC UA Server Access”** window

The means of the checkboxes inside the table are:

- If the field **“Enable”** is checked, the OPC UA variable is enabled;
- In the field **“Type”** the data format of the OPC UA variable is defined;
- In the field **“Position”** the starting byte of the internal memory arrays where getting the value is defined;
- In the field **“Length”** the byte length of the OPC UA variable is defined;
- In the field **“Name”** the name of the OPC UA variable is defined;
- In the field **“R/W”** the access type of the OPC UA variable is defined;
- In the field **“Mnemonic”** a description of the OPC UA variable is defined.

SET SDO SERVER:

By pressing the **“Set SDO Server”** button from the main window for SW67B34 (Fig. 2) the window **“Set SDO Server Access”** appears (Fig. 5).

This window is made to create the SDO in read or write in the CANopen side and to indicate which byte are associated to these SDOs.

It is divided in two parts, the **“SDO in Read”** and the **“SDO in Write”**.

The first part is used to read, using the SDO, the data arrived from OPC UA side. The second is used to write, using SDO, the data that will be sent to OPC UA side.

The data of the columns have the following meanings:

- In the field **“Index”** the address of the SDO Object is defined;
- In the field **“SubIndex”** the second address of the SDO Object is defined;
- If the field **“N Byte”** the dimension of the SDO is defined (it can be 1, 2 or 4);
- In the field **“Address Byte1”** insert the byte of the internal memory array where reading/writing the 1st byte of the SDO;
- In the field **“Address Byte2”** insert the byte of the internal memory array where reading/writing the 2nd byte of the SDO (only if N Byte is 2 or 4);
- In the field **“Address Byte3”** insert the byte of the internal memory array where reading/writing the 3rd byte of the SDO (only if N Byte is 4);
- In the field **“Address Byte4”** insert the byte of the internal memory array where reading/writing the 4th byte of the SDO (only if N Byte is 4);
- In the field **“Mnemonic”** the description for the SDO is defined.

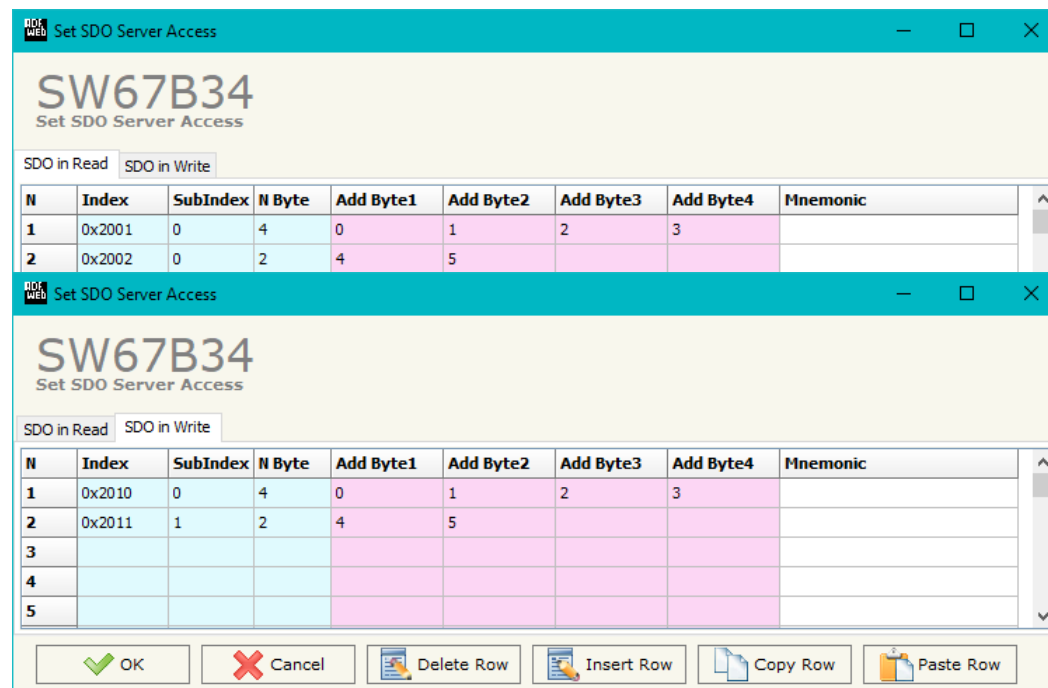


Figure 5: **“Set SDO Server Access”** window

SET SDO CLIENT:

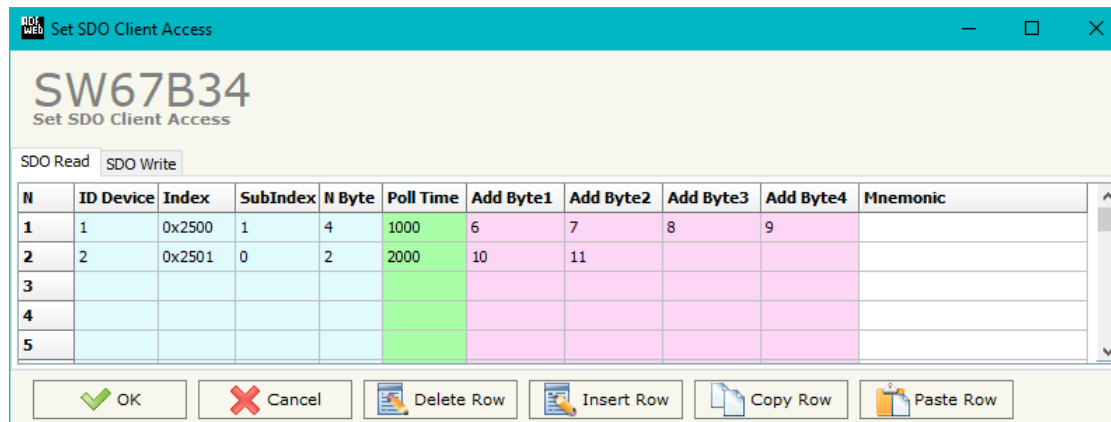
By pressing the **Set SDO Client** button from the main window for SW67B34 (Fig. 2) the window "Set SDO Client Access" appears (Fig. 6a and 6b).

With the SDO Client the HD67B34 can read and/or write the data from/to others devices connected in the CANopen network.

It is divided in two parts, the "SDO Read" and the "SDO Write". The first part is used to read, using the SDO, the data in another device and then put this data in the internal memory array. The second part is used to write, using the SDO, the data present in the internal memory array to others CANopen devices.

The meaning of the columns in the "SDO Read" are:

- In the field "**Device ID**" the ID of the device to read is defined;
- In the field "**Index**" the address of the SDO to read is defined;
- In the field "**SubIndex**" the second address of the SDO to read is defined;
- In the field "**N Byte**" the dimension of the SDO to read is defined (it can be 1, 2, or 4);
- In the field "**Poll Time**" the cyclic time of the request is defined;
- In the field "**Address Byte1**" the byte of the internal memory array where coping the 1st byte of the SDO read is defined;
- In the field "**Address Byte2**" the byte of the internal memory array where coping the 2nd byte of the SDO read is defined (only if N Byte is 2 or 4);
- In the field "**Address Byte3**" the byte of the internal memory array where coping the 3rd byte of the SDO read is defined (only if N Byte is 4);
- In the field "**Address Byte4**" the byte of the internal memory array where coping the 4th byte of the SDO read is defined (only if N Byte is 4);
- In the field "**Mnemonic**" the description for the SDO is defined.

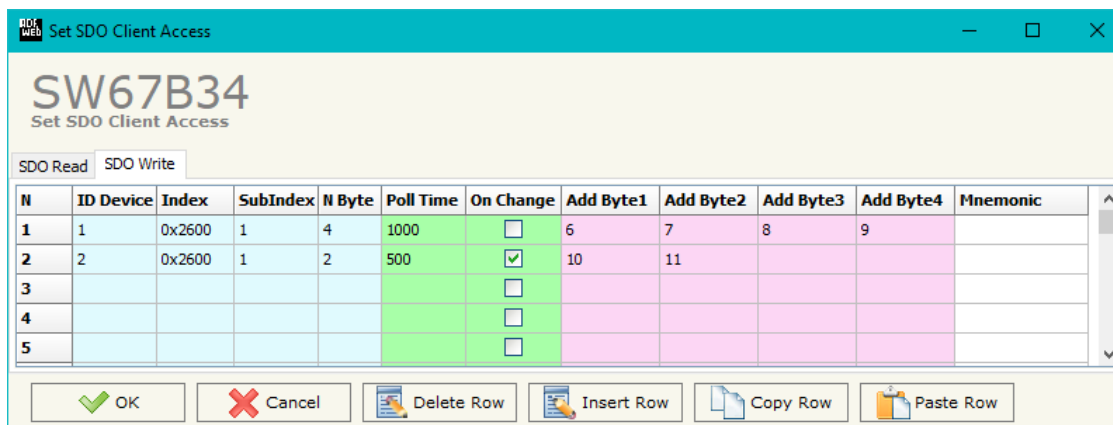


N	ID Device	Index	SubIndex	N Byte	Poll Time	Add Byte1	Add Byte2	Add Byte3	Add Byte4	Mnemonic
1	1	0x2500	1	4	1000	6	7	8	9	
2	2	0x2501	0	2	2000	10	11			
3										
4										
5										

Figure 6a: "Set SDO Client Access – SDO Read" window

The meaning of the columns in the "SDO Write" are:

- In the field "**Device ID**" the ID of the device to write is defined;
- In the field "**Index**" the address for the SDO to write is defined;
- In the field "**SubIndex**" the second address for the SDO to write is defined;
- In the field "**N Byte**" the dimension of the SDO to write is defined (it can be 1, 2, or 4);
- In the field "**Poll Time**" the time to make the request is defined;
- If the field "**On Change**" is checked, the converter sends the writing request when the data from OPC UA side changes;
- In the field "**Address Byte1**" the byte of the internal memory array where taking the 1st byte of the SDO write is defined;
- In the field "**Address Byte2**" the byte of the internal memory array where taking the 2nd byte of the SDO write is defined (only if N Byte is 2 or 4);
- In the field "**Address Byte3**" the byte of the internal memory array where taking the 3rd byte of the SDO write is defined (only if N Byte is 4);
- In the field "**Address Byte4**" the byte of the internal memory array where taking the 4th byte of the SDO write is defined (only if N Byte is 4);
- In the field "**Mnemonic**" the description for the SDO is defined.



N	ID Device	Index	SubIndex	N Byte	Poll Time	On Change	Add Byte1	Add Byte2	Add Byte3	Add Byte4	Mnemonic
1	1	0x2600	1	4	1000	<input type="checkbox"/>	6	7	8	9	
2	2	0x2600	1	2	500	<input checked="" type="checkbox"/>	10	11			
3						<input type="checkbox"/>					
4						<input type="checkbox"/>					
5						<input type="checkbox"/>					

Figure 6b: "Set SDO Client Access – SDO Write" window

SET PDO ACCESS:

By pressing the "Set PDO Access" button from the main window for SW67B34 (Fig. 2) the window "Set PDO Access" appears (Fig. 7a and 7b).

This window is used to create the Receive and the Transmit PDOs in the CANopen side and to indicate which bytes of internal memory array are associated to these PDOs.

It is divided in two parts, the "Receive PDO" and the "Transmit PDO". The first part is used to receive PDO from the CANopen network and copy the data in the internal memory array. The second part is used to transmit PDO in the CANopen network with the data of internal memory array.

The meaning of the columns in the "Receive PDO" are:

- In the field "**Cob-ID**" the COB-ID for the PDO is defined;
- In the field "**Dimension**" the dimension of the PDO is defined (it can be between 1 and 8 bytes);
- In the field "**Add B1**" the byte of the internal memory array where coping the 1st byte of the RPDO is defined;
- In the field "**Add B2**" the byte of the internal memory array where coping the 2nd byte of the RPDO is defined;
- In the field "**Add B3**" the byte of the internal memory array where coping the 3rd byte of the RPDO is defined;
- In the field "**Add B4**" the byte of the internal memory array where coping the 4th byte of the RPDO is defined;
- In the field "**Add B5**" the byte of the internal memory array where coping the 5th byte of the RPDO is defined;
- In the field "**Add B6**" the byte of the internal memory array where coping the 6th byte of the RPDO is defined;
- In the field "**Add B7**" the byte of the internal memory array where coping the 7th byte of the RPDO is defined;
- In the field "**Add B8**" the byte of the internal memory array where coping the 8th byte of the RPDO is defined;
- In the field "**TimeOut**" the timeout is defined. It is used to put to 0 the data into the internal memory array if the PDO doesn't arrive in the defined time. If the value in this field is '0', the function is not used;
- In the field "**Mnemonic**" the description for the PDO is defined.

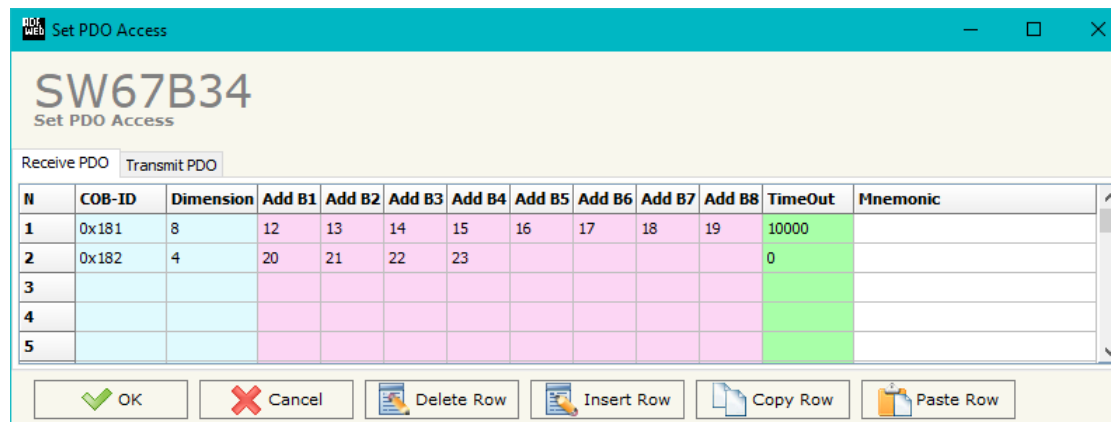


Figure 7a: "Set PDO Access – Receive PDO" window

The meaning of the columns in the "Transmit PDO" are:

- In the field "**Cob-ID**" the COB-ID for the PDO is defined;
- In the Field "**Dimension**" the dimension of the PDO is defined (it can be between 1 and 8 bytes);
- In the field "**Add B1**" the byte of the internal memory array where taking the 1st byte of the RPDO is defined;
- In the field "**Add B2**" the byte of the internal memory array where taking the 2nd byte of the RPDO is defined;
- In the field "**Add B3**" the byte of the internal memory array where taking the 3rd byte of the RPDO is defined;
- In the field "**Add B4**" the byte of the internal memory array where taking the 4th byte of the RPDO is defined;
- In the field "**Add B5**" the byte of the internal memory array where taking the 5th byte of the RPDO is defined;
- In the field "**Add B6**" the byte of the internal memory array where taking the 6th byte of the RPDO is defined;
- In the field "**Add B7**" the byte of the internal memory array where taking the 7th byte of the RPDO is defined;
- In the field "**Add B8**" the byte of the internal memory array where taking the 8th byte of the RPDO is defined;
- In the field "**Send Time**" the interval used to send the PDO is defined. The time is in milliseconds;
- If the field "**On Change**" is checked, the gateway sends the Transmit PDO when the data from OPC UA change the value;
- In the field "**Mnemonic**" the description for the PDO is defined.

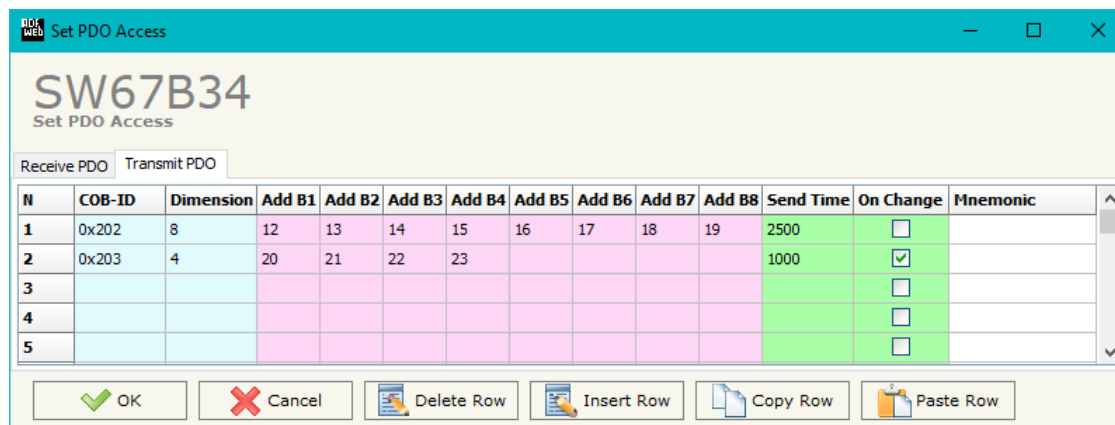


Figure 7b: "Set PDO Access – Transmit PDO" window

EDS FILE:

By Pressing the "**EDS File**" button from the main window for SW67B34 (Fig. 2) it is possible to generate the EDS file to be imported into the CANopen Client.

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.

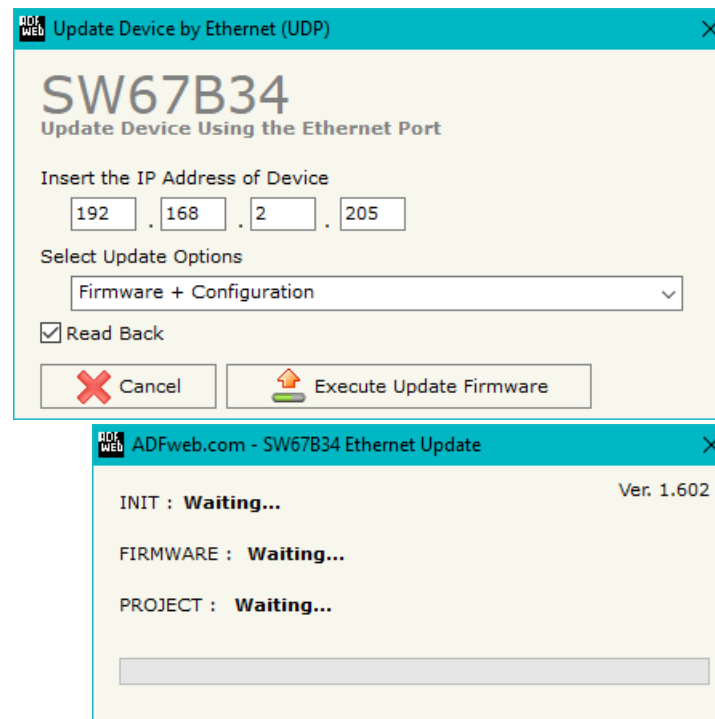


Figure 8: “Update device” windows



Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67B34 device.



Warning:

If Fig. 9 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 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 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

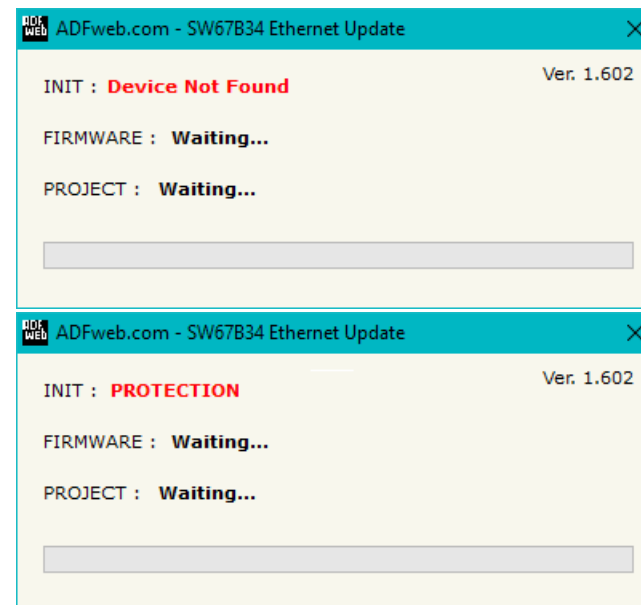


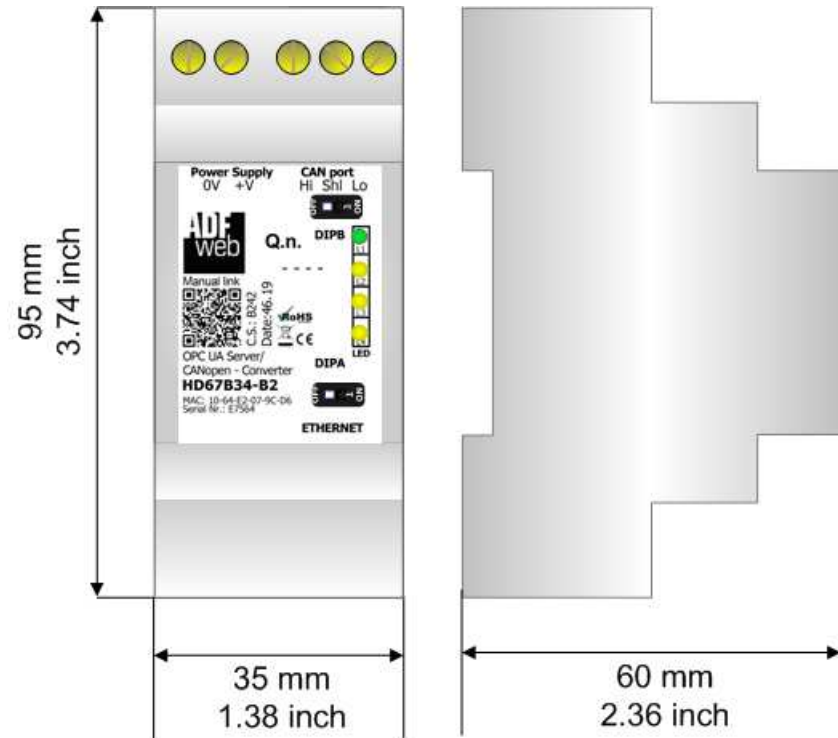
Figure 9: "Error" window



Warning:

In the case of HD67B34 you have to use the software "SW67B34": www.adfweb.com/download/filefold/SW67B34.zip.

MECHANICAL DIMENSIONS:



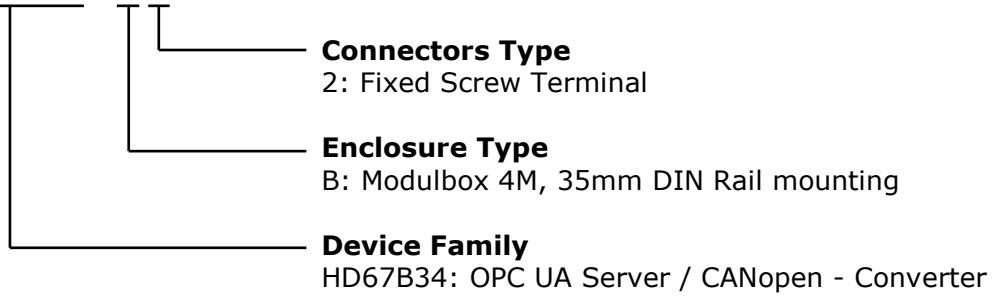
Housing: PVC
 Weight: 200g
 (Approx)

Figure 10: Mechanical dimensions scheme for HD67B34-B2

ORDERING INFORMATIONS:

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

HD67B34 - B 2



Order Code: **HD67B34-B2** - OPC UA Server / CANopen - Converter

ACCESSORIES:

Order Code: **AC34011** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 12 V DC

Order Code: **AC34012** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 24 V DC

DISCLAIMER:

All technical content within this document can be modified without notice. The content of the document is a under continual renewal. For losses due to fire, earthquake, third party access or other accidents, or intentional or accidental abuse, misuse, or use under abnormal conditions repairs are charged to the user. ADFweb.com S.r.l. will not be liable for accidental loss of use or inability to use this product, such as loss of business income. ADFweb.com S.r.l. shall not be liable for consequences of improper use.

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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