

User Manual

Revision 1.000
English

S7comm / SNMP Agent - Converter

(Order Code: HD67626-A1)

for Website information:

<http://www.adfweb.com/?Product=HD67626>

for Price information:

<http://www.adfweb.com/?Price=HD67626-A1>

Benefits and Main Features:

- ✦ Triple electrical isolation
- ✦ Two Ethernet ports
- ✦ Temperature range: -40°C/+85°C (-40°F/+185°F)



For others S7comm devices, see also the following links:

S7comm from/to ...

- www.adfweb.com?Product=HD67618
- www.adfweb.com?Product=HD67619
- www.adfweb.com?Product=HD67620
- www.adfweb.com?Product=HD67621
- www.adfweb.com?Product=HD67622
- www.adfweb.com?Product=HD67623
- www.adfweb.com?Product=HD67624
- www.adfweb.com?Product=HD67625
- www.adfweb.com?Product=HD67627
- www.adfweb.com?Product=HD67628
- www.adfweb.com?Product=HD67629
- www.adfweb.com?Product=HD67630
- www.adfweb.com?Product=HD67631
- www.adfweb.com?Product=HD67632
- www.adfweb.com?Product=HD67633
- www.adfweb.com?Product=HD67D39
- www.adfweb.com?Product=HD67E28

- (Modbus TCP Slave)
- (PROFIBUS Slave)
- (IEC61850 Server)
- (Serial)
- (Modbus Slave)
- (CAN)
- (CANopen)
- (DeviceNet Slave)
- (EtherNet/IP Slave)
- (KNX)
- (MQTT)
- (BACnet Slave)
- (Ethernet)
- (OPC UA Server)
- (PROFINET Slave)
- (LoRaWAN)
- (S7comm)

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

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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
1.000	11/03/2021	Ff	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:



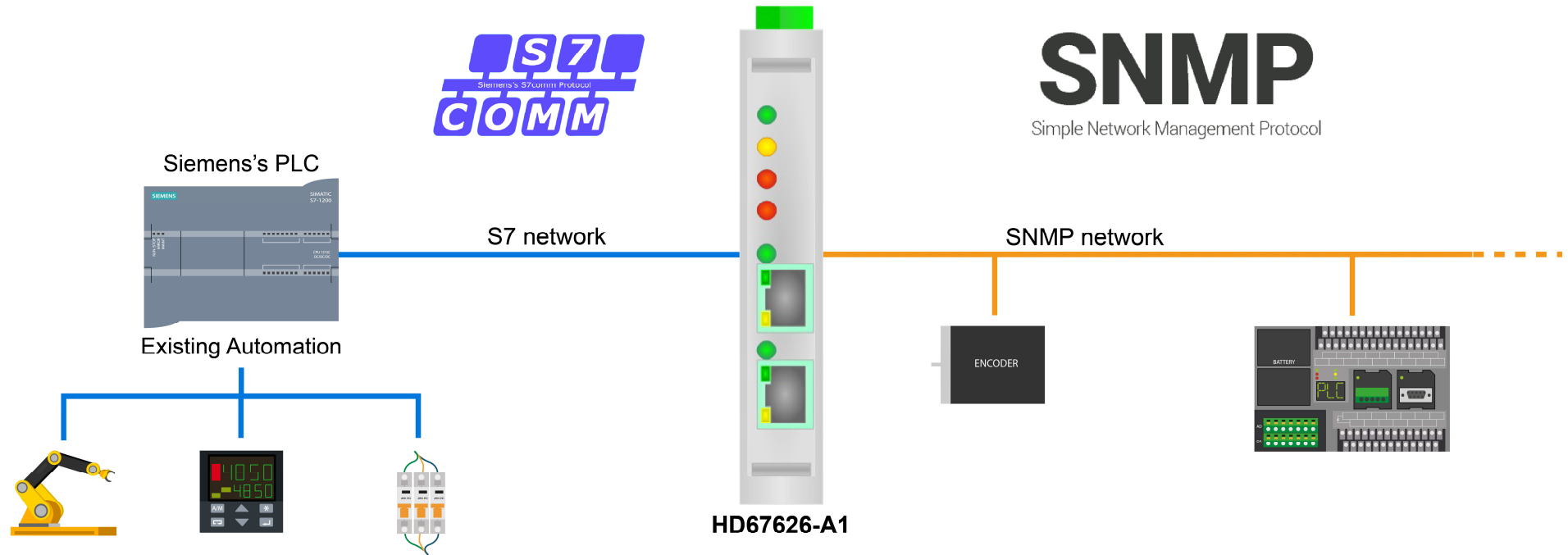
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

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:

S7 comm / SNMP - Converter
 HD67626-A1



ADFweb.com



+39 0438 309 131



+39 349 440 9592



support@adfweb.com

CONNECTION SCHEME:

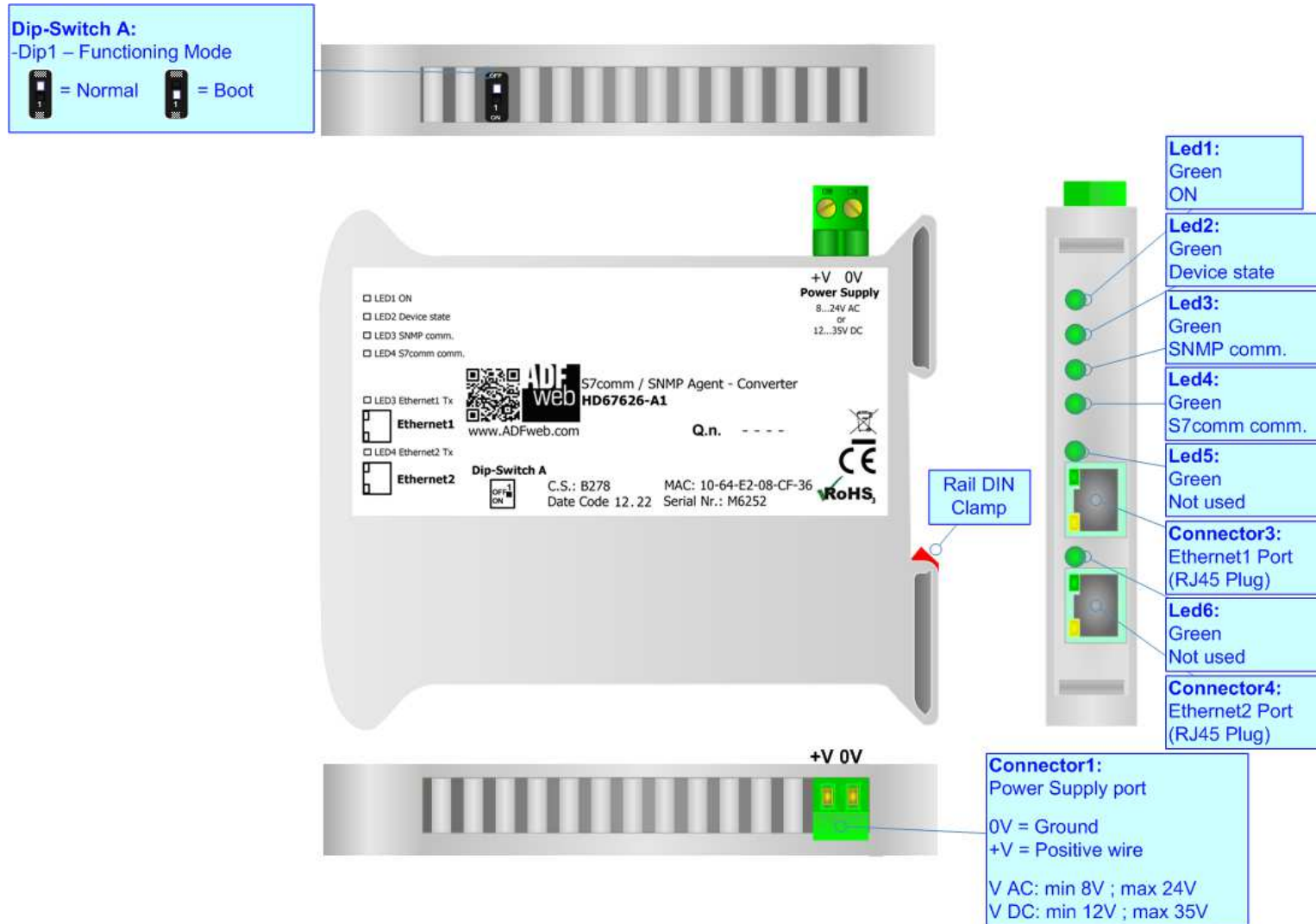


Figure 1: Connection scheme for HD67626-A1

CHARACTERISTICS:

The HD67626-A1 is a S7comm / SNMP Agent Converter.

It allows the following characteristics:

- Two-directional information between S7comm and SNMP;
- 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 SW67626 software on your PC in order to perform the following:

- Define the parameter of the SNMP;
- Define the parameter of the S7comm;
- Define the S7comm requests to send to the S7comm servers;
- Define the SNMP OIDs in read and write;
- Export the MIB file;
- Update the device.

POWER SUPPLY:

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

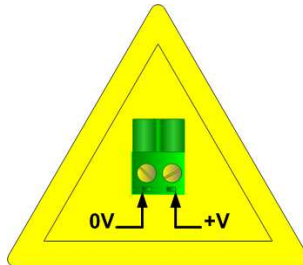
	VAC		VDC	
	Vmin	Vmax	Vmin	Vmax
HD67626-A1	8V	24V	12V	35V

Consumption at 24V DC:

Device	W/VA
HD67626-A1	4

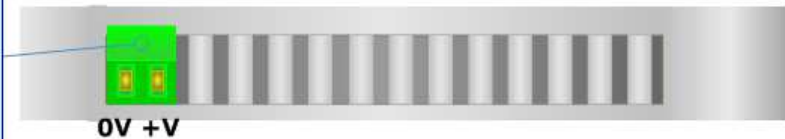


Caution: Not reverse the polarity power



HD67626-A1

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



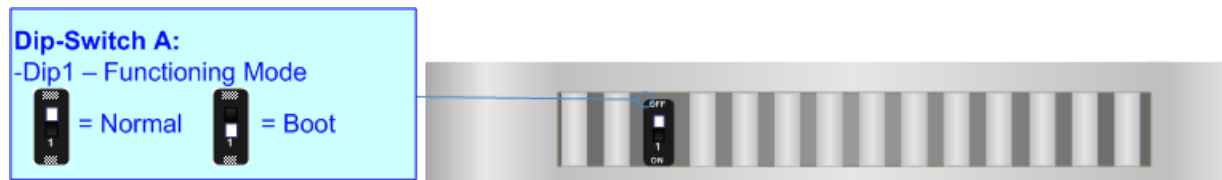
FUNCTION MODES:

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).

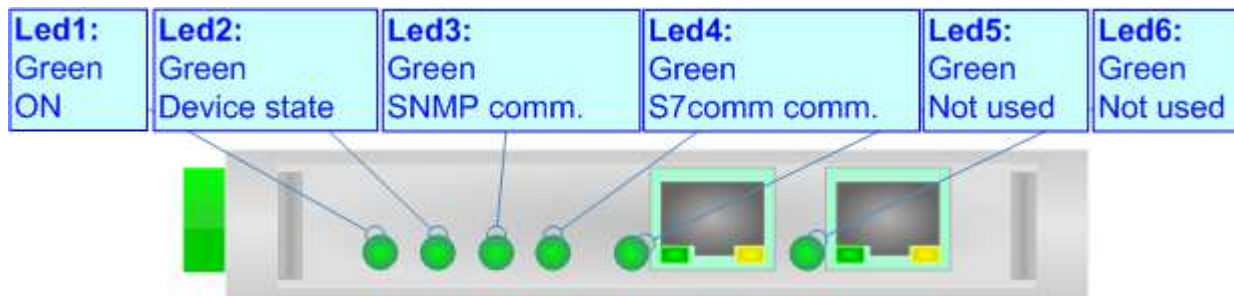
According to the functioning mode, the LEDs will have specifics functions (see 'LEDS' section).



LEDS:

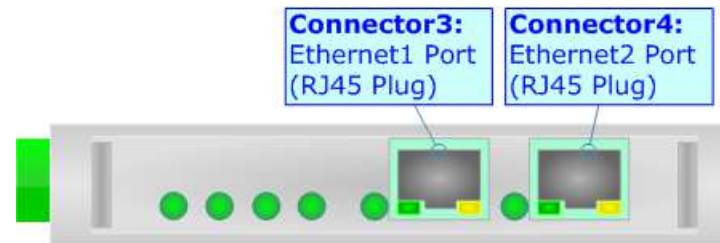
The device has got six LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

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: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: SNMP communication (green)	Blinks when a SNMP response is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: S7comm communication (green)	Blinks when a S7comm response is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Not used (green)	OFF	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
6: Not used (green)	OFF	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



ETHERNET:


The Ethernet connection must be made using Connector3 or Connector4 of HD67626-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.



USE OF COMPOSITOR SW67626:

To configure the Converter, use the available software that runs with Windows called SW67626. 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, 11; 32/64bit).

When launching the SW67626, the window below appears (Fig. 2).

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

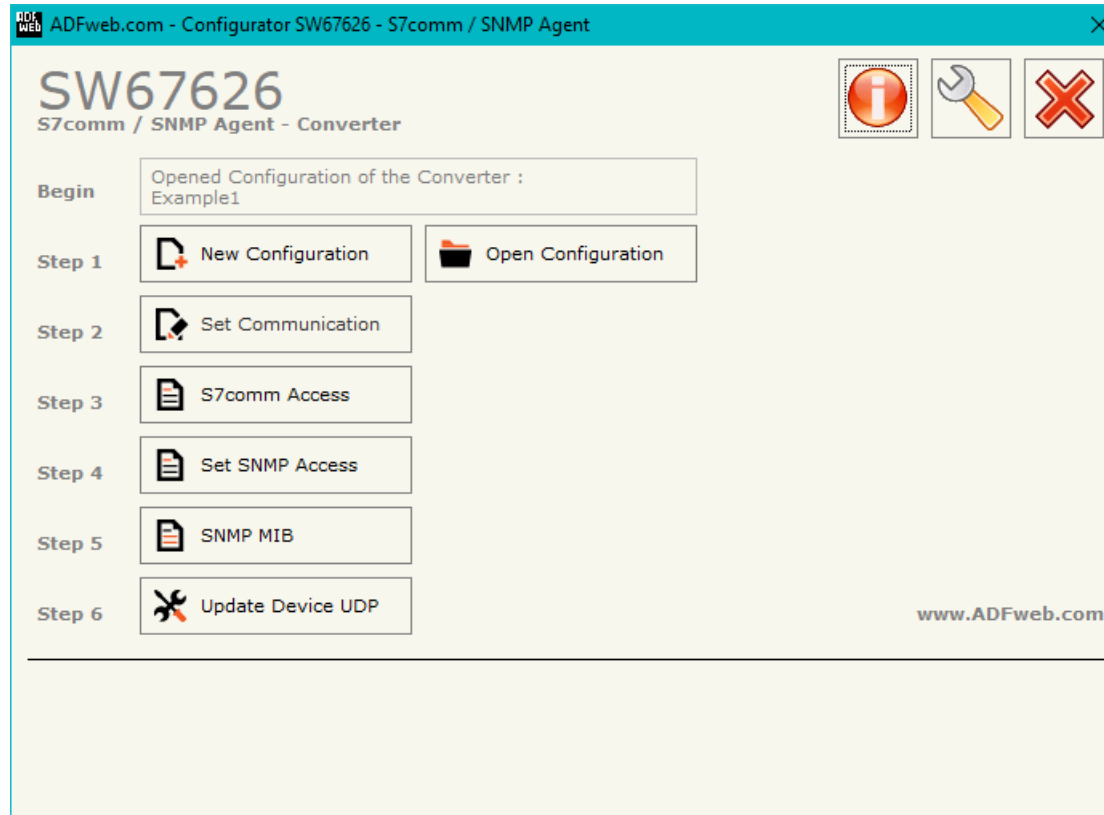
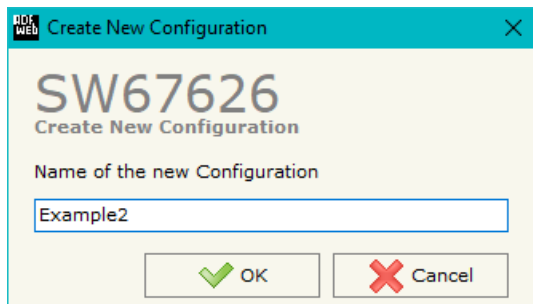


Figure 2: Main window for SW67626

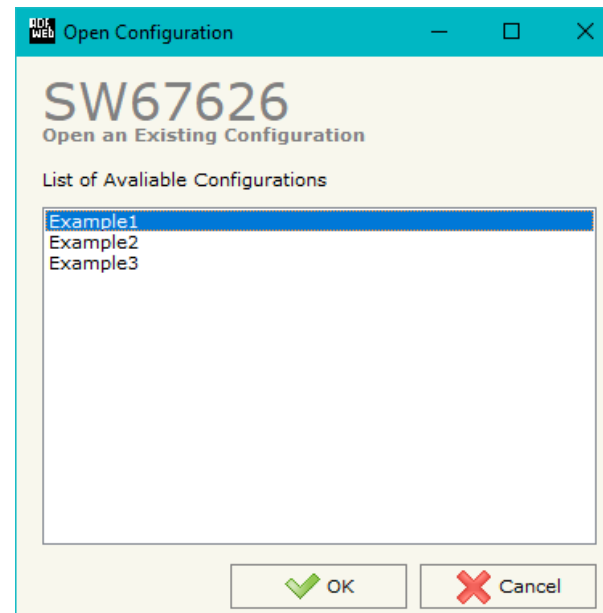
NEW CONFIGURATION / OPEN CONFIGURATION:

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




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

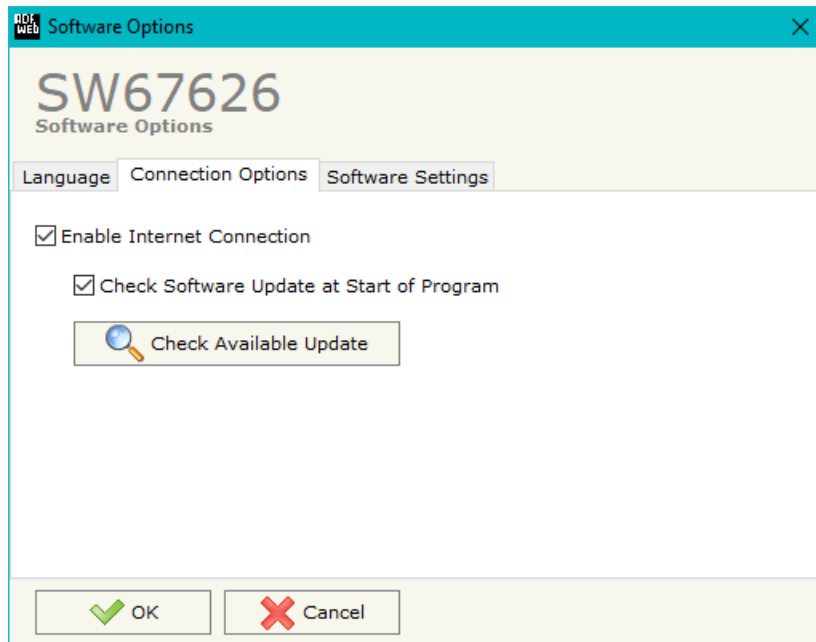
- To clone the configurations of a programmable “S7comm / SNMP Agent - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



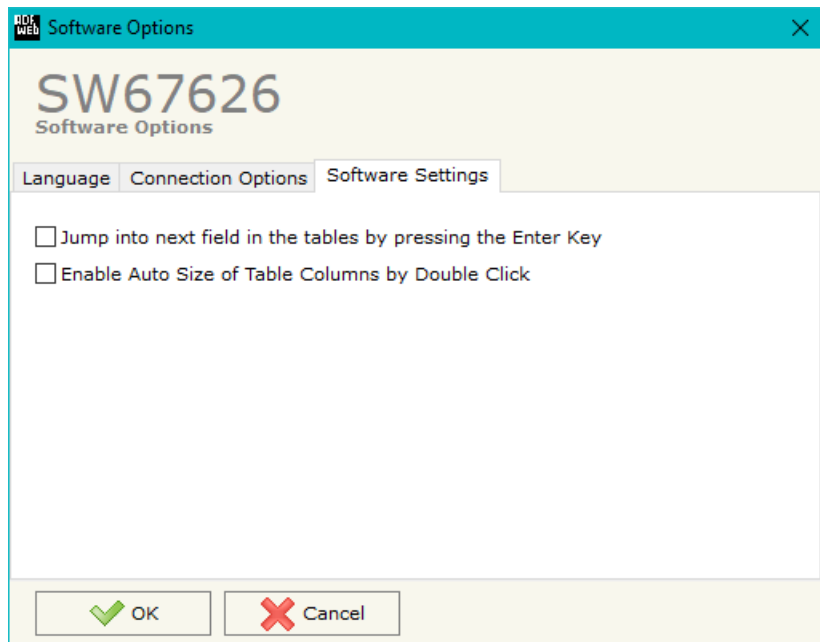
SOFTWARE OPTIONS:

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 SW67626 check automatically if there are updatings 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, SNMP and S7comm.

By Pressing the **"Set Communication"** button from the main window for SW67626 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "Ethernet Connection" are:

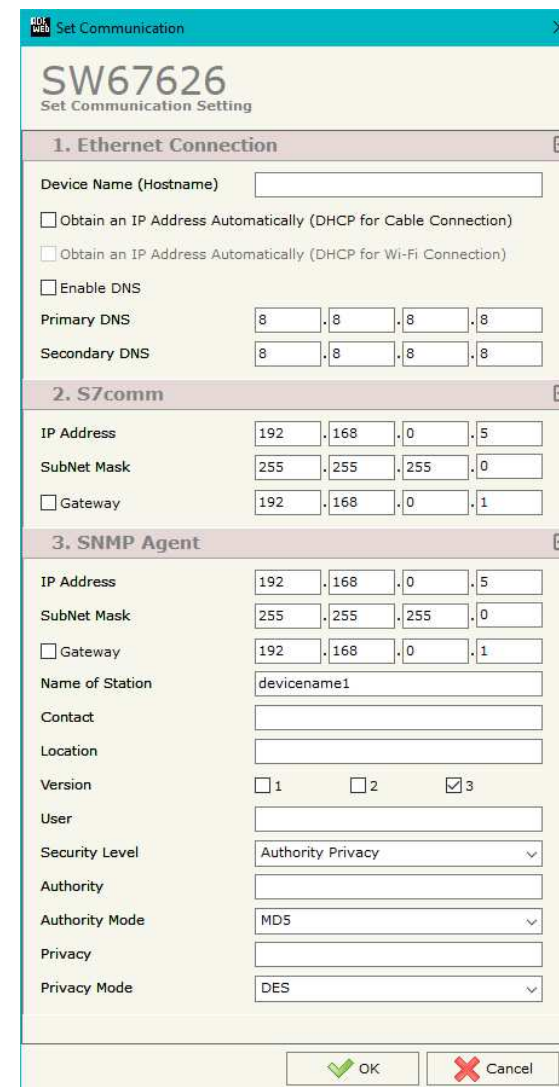
- In the field **"Device Name (Hostname)"** the Hostname to assign to the converter is defined;
- If the field **"Obtain an IP Address Automatically (DHCP for Cable Connection)"** is checked, DHCP for LAN connection is enabled;
- If the field **"Enable DNS"** is checked, DNS protocol is enabled;
- In the field **"Primary DNS"** the IP Address of the primary DNS server is defined;
- In the field **"Secondary DNS"** the IP Address of the secondary DNS server is defined.

The means of the fields for "S7comm" are:

- In the fields **"IP ADDRESS"** the IP address for S7comm side of the converter is defined;
- In the fields **"SUBNET Mask"** the SubNet Mask for S7comm side of the converter is defined;
- In the fields **"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.

The means of the fields for "SNMP Agents" are:

- In the field **"IP ADDRESS"** the IP address of SNMP side of the converter is defined;
- In the field **"SUBNET Mask"** the SubNet Mask of SNMP side of the converter is defined;
- In the field **"GATEWAY"** the default gateway of the network 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 **"SNMP Name of Station"** the name for SNMP Agent station is defined;
- In the field **"Contact"** the contact for SNMP Agent station is defined;



The screenshot shows the 'Set Communication' window for device SW67626. It is organized into three main sections:

- 1. Ethernet Connection:** Includes fields for Device Name (Hostname), checkboxes for 'Obtain an IP Address Automatically (DHCP for Cable Connection)' and 'Obtain an IP Address Automatically (DHCP for Wi-Fi Connection)', a checkbox for 'Enable DNS', and input fields for Primary DNS and Secondary DNS (each with four digit boxes).
- 2. S7comm:** Includes input fields for IP Address, SubNet Mask, and Gateway (each with four digit boxes), and a checkbox for 'Gateway'.
- 3. SNMP Agent:** Includes input fields for IP Address, SubNet Mask, and Gateway (each with four digit boxes), a checkbox for 'Gateway', and text fields for Name of Station, Contact, and Location. It also has radio buttons for Version (1, 2, 3) with version 3 selected, and dropdown menus for Security Level (Authority Privacy), Authority Mode (MDS), and Privacy Mode (DES).

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

Figure 3: "Set Communication" window

- In the field "**Location**" the location for SNMP Agent station is defined;
- In the field "**Version**" the version of SNMP is defined;
- If SNMP V3 is used, the following fields must be filled:
 - In the field "**User**" the user for the SNMP authentication is defined;
 - In the field "**Security Level**" the type of security used is defined;
 - In the field "**Authority**" the password for the SNMP authentication is defined;
 - In the field "**Authority Mode**" the mode used for the authentication is defined;
 - In the field "**Privacy**" the password for Privacy authentication is defined;
 - In the field "**Privacy Mode**" the mode used for Privacy is defined;

S7comm ACCESS:

By Pressing the "**S7comm Access**" button from the main window of SW67626 (Fig. 2), the window "Set S7comm Access" appears (Fig. 4). The window is divided in two parts, the "**S7comm Read**" that contains the data that the converter reads from the S7comm servers and "**S7comm Write**" that contains the data that the converter writes into the S7comm servers.

N	Enable	PLC Address	PLC Port	PLC Type	Rack	Slot	Data Type	Data Identifier	DB Number	PLC Area	PLC Add	PLC Bit	Poll Time	Position	Start Bit	Swap	Swap Word	Mnemonic
1	<input checked="" type="checkbox"/>	192.168.2.60	1001	S71200	0	0	Word	OB	0	Direct peripheral	0	0	1000	0	0	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input checked="" type="checkbox"/>															<input type="checkbox"/>	<input type="checkbox"/>	
3	<input checked="" type="checkbox"/>															<input type="checkbox"/>	<input type="checkbox"/>	
4	<input checked="" type="checkbox"/>															<input type="checkbox"/>	<input type="checkbox"/>	
5	<input checked="" type="checkbox"/>															<input type="checkbox"/>	<input type="checkbox"/>	

Figure 4a: "S7 Protocol Access → S7comm Read" window

The means of the fields in the window "S7comm Read" are the following:

- In the field "**PLC Address**" the IP address of the PLC that contains the data to be read is defined;
- In the field "**PLC Port**" the port used for S7comm communication is defined;
- In the field "**PLC Type**" the family of the PLC is defined;
- In the field "**Rack**" the Rack's ID of the PLC is defined;
- In the field "**Slot**" the Slot's ID is defined;
- In the field "**Data Type**" the data format of the variable to read is defined;
- In the field "**Data Identifier**" the identifier of the variable to read is defined;
- In the field "**PLC Area**" the memory area where the data is located inside the PLC is defined;
- In the field "**PLC Add**" the starting memory address where the data is located is defined;
- In the field "**PLC Bit**" the starting bit of the selected PLC Address is defined;
- In the field "**Poll Time**" the frequency of the request is defined (in ms);
- In the field "**Position**" the starting byte of the internal memory array from which mapping the data read is defined;

- In the field "**Start Bit**" is used for the "Bit" data. It is possible to select the bit of the selected Position where mapping the data;
- If the field "**Swap**" is checked, the bytes' order is reversed;
- If the field "**Swap W**" is checked, the words' order is reversed;
- In the field "**Mnemonic**" a description of the data inserted in the row is defined.

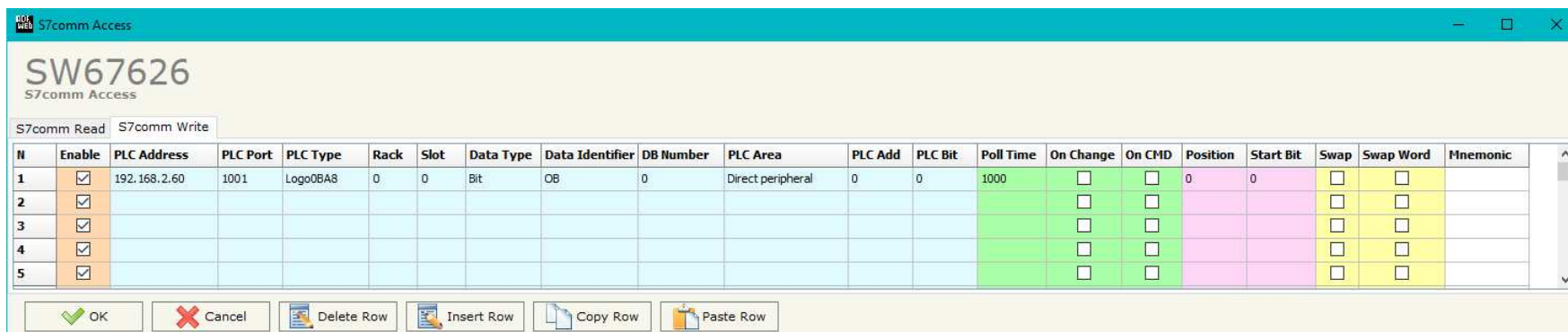


Figure 4b: "S7 Protocol Access → S7comm Write" window

The means of the fields in the window "S7comm Read" are the following:

- In the field "**PLC Address**" the IP address of the PLC that contains the data to be read is defined;
- In the field "**PLC Port**" the port used for S7comm communication is defined;
- In the field "**PLC Type**" the family of the PLC is defined;
- In the field "**Rack**" the Rack's ID of the PLC is defined;
- In the field "**Slot**" the Slot's ID is defined;
- In the field "**Data Type**" the data format of the variable to read is defined;
- In the field "**Data Identifier**" the identifier of the variable to read is defined;
- In the field "**PLC Area**" the memory area where the data is located inside the PLC is defined;
- In the field "**PLC Add**" the starting memory address where the data is located is defined;
- In the field "**PLC Bit**" the starting bit of the selected PLC Address is defined;
- In the field "**Poll Time**" the frequency of the request is defined (in ms);
- By checking the field "**On Change**" the S7comm write request is sent only if SNMP data are changed;
- By checking the field "**On CMD**" the S7comm write request is sent when a SNMP writing for the selected variable is received;
- In the field "**Position**" the starting byte of the internal memory array from which taking the data to write is defined;
- The field "**Start Bit**" is used for the "Bit" data. It is possible to select the bit of the selected Position from which taking the data;
- If the field "**Swap**" is checked, the bytes' order is reversed;
- If the field "**Swap W**" is checked, the words' order is reversed;
- In the field "**Mnemonic**" a description of the data inserted in the row is defined.

SET SNMP ACCESS:

By pressing the **"Set SNMP Access"** button from the main window for SW67626 (Fig. 2) the "Set SNMP Access" window appears (Fig. 5). In this section, it is possible to create the OIDs for SNMP side to read or write using GET and SET commands or to be sent as TRAP messages. The window is divided into two tables, one for SNMP readings and one for SNMP writings.

The data of the columns in the "SNMP Read" have the following meanings:

- If the field **"Enable"** is checked, the SNMP OID is enabled;
- In the field **"Community Name"** the name of the Community is defined;
- In the field **"Type"** the type of data of the OID is defined (Octet String or Integer);
- If the field **"On Change"** is checked, the OID is sent as Trap when the data from S7comm side change;
- If the field **"On CMD"** is checked, the OID is sent as Trap when the a S7comm response is received;
- If the field **"On Timer"** is checked, the OID is sent as Trap cyclically;
- In the field **"Time (ms)"** the delay time for the Trap send is defined (if "On Timer" option is checked);
- In the field **"Position"** the starting byte of the internal memory array where taking the data is defined;
- In the field **"Start Bit"** the starting bit of the selected Position is defined;
- In the field **"Num Bits/Bytes"** the dimension of the OID is defined. For 'Int' type the dimension is in bit, for 'String' type the dimension is in bytes;
- In the field **"Description"** the description/name of the OID is defined;
- In the field **"IP Address"** the IP Address of the SNMP device where addressing the Trap message is defined. This field is used only when 'On Change' or 'On Timer' option is checked;
- In the field **"Conversion"** it is possible to select the data conversion to apply to the data;
- In the field **"Mnemonic"** a brief description of the OID is defined.

N	Enable	Community Name	Type	On Change	On CMD	On Timer	Time (ms)	Position	Start Bit	Num Bits/Bytes	Description	IP Address	Conversion	Mnemonic
1	<input checked="" type="checkbox"/>	Public	Int	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1000	0	0	32	test	192.168.0.14	None	
2	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
3	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
4	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
5	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								

Figure 5a: "Set SNMP Access -> SNMP Read" window

The data of the columns in the "SNMP Write" have the following meanings:

- If the field "Enable" is checked, the SNMP OID is enabled;
- In the field "Community Name" the name of the Community is defined;
- In the field "Type" the type of data of the OID is defined (Octet String or Integer);
- In the field "Position" the starting byte of the internal memory array where mapping the data is defined;
- In the field "Start Bit" the starting bit of the selected Position is defined;
- In the field "Num Bits/Bytes" the dimension of the OID is defined. For 'Int' type the dimension is in bit, for 'String' type the dimension is in bytes;
- In the field "Description" the description/name of the OID is defined;
- In the field "Conversion" it is possible to select the data conversion to apply to the data;
- In the field "Mnemonic" a brief description of the OID is defined.

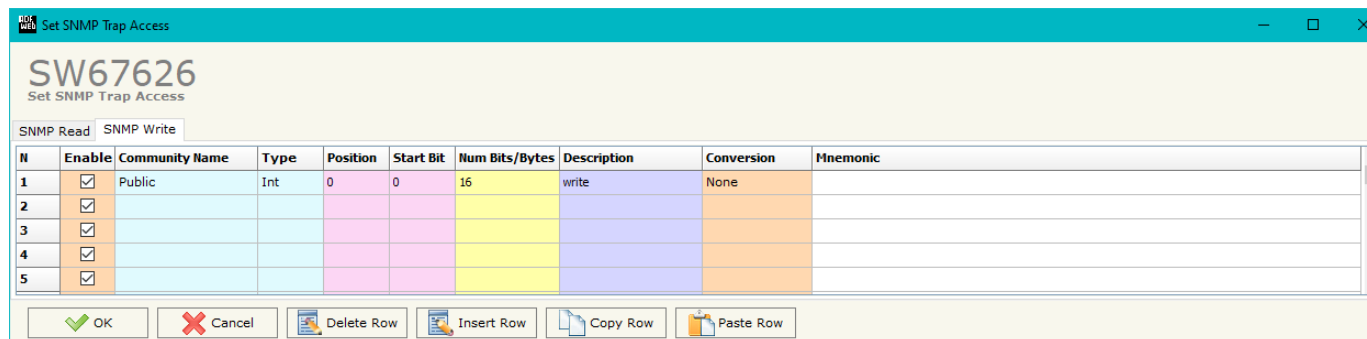


Figure 5b: "Set SNMP Access -> SNMP Write" window

Note: If the fields "On Change" and "On Timer" are disabled, the OID is readable using standard GET command. If one of these fields is enabled, the OID is sent as Trap and it is readable by GET command too.

Note: The field "Description" must start with lowercase letter and it cannot contain special chars (just letters and numbers). All the "Description" fields must be different between them.

SNMP MIB:

By pressing the "SNMP MIB" button it is possible to save the MIB file for the SNMP Manager.

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.

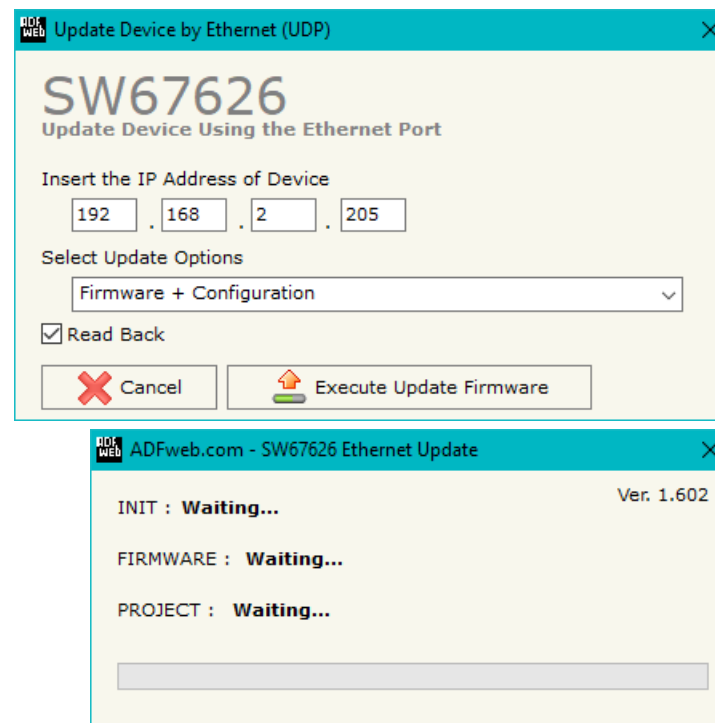


Figure 6: “Update device” windows

**Note:**

When you receive the device, for the first time, you also have to update the Firmware in the HD67626 device.

**Warning:**

If Fig. 7 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, 10 or 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 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

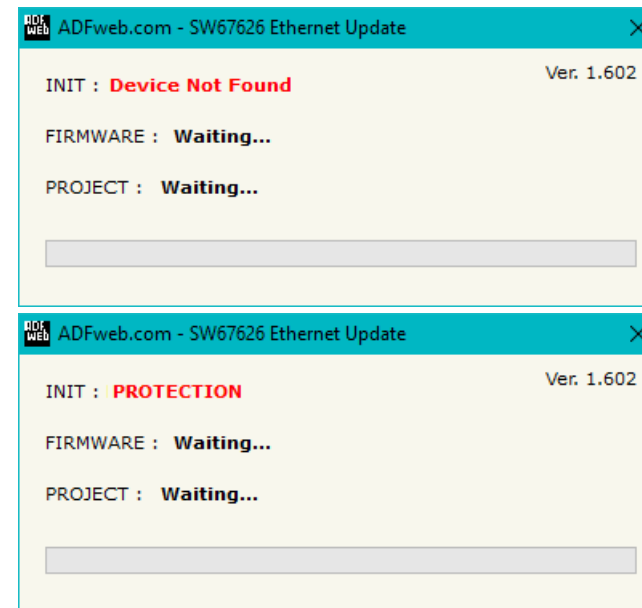
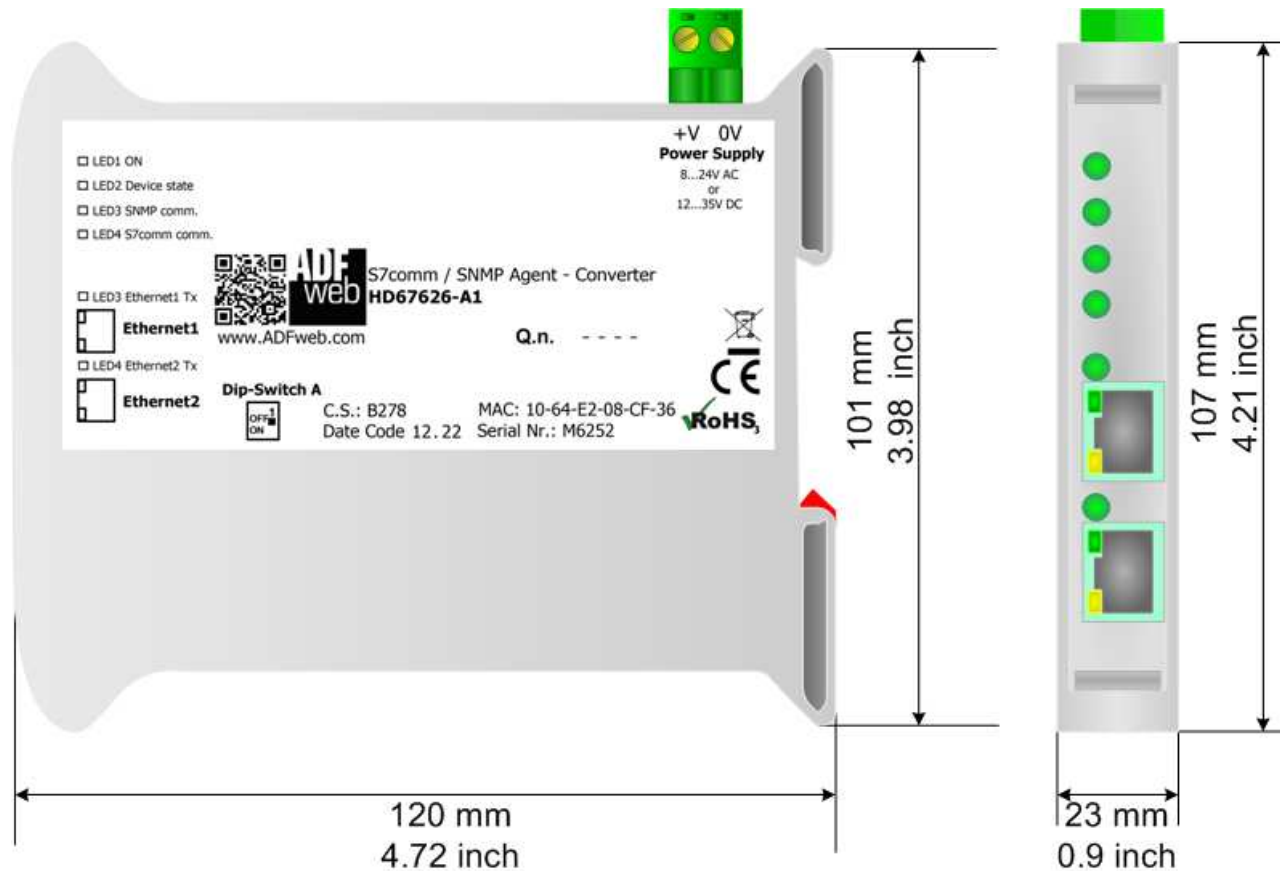


Figure 7: "Error" window

**Warning:**

In the case of HD67626 you have to use the software "SW67626": www.adfweb.com/download/filefold/SW67626.zip.

MECHANICAL DIMENSIONS:

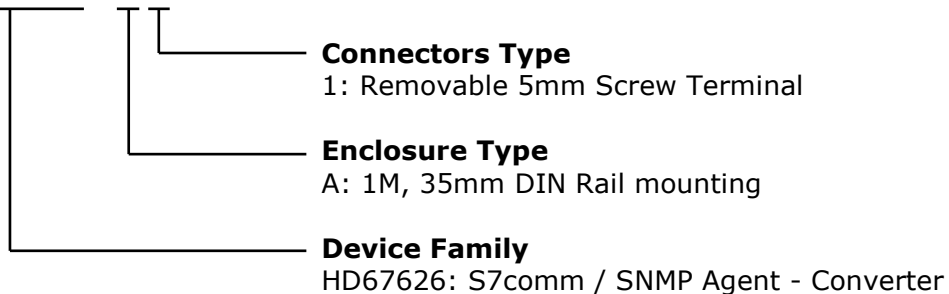


Housing: PVC
Weight: 200g (Approx)

Figure 8: Mechanical dimensions scheme for HD67626-A1

ORDERING INFORMATIONS:

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

HD67626 - A 1

Order Code: **HD67626-A1** - S7comm / SNMP Agent - 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

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.



ADFweb.com S.r.l.
Via Strada Nuova, 17
IT-31010 Mareno di Piave
TREVISO (Italy)
Phone +39.0438.30.91.31
Fax +39.0438.49.20.99
www.adfweb.com

