

User Manual

Revision 1.100

English

EtherNet/IP / NMEA 2000 - Converter

(Order Code: HD67589-A1)

For Website information:

www.adfweb.com?Product=HD67589

For Price information:

www.adfweb.com?Price=HD67589-A1

Benefits and Main Features:

- ⊕ Electrical isolation
- ⊕ Two EtherNet/IP ports
- ⊕ Temperature range: -40°C/+85°C (-40°F/+185°F)

For others Ethernet/IP products see also the following link:

Converter EtherNet/IP to

www.adfweb.com?Product=HD67077
www.adfweb.com?Product=HD67595
www.adfweb.com?Product=HD67597
www.adfweb.com?Product=HD67598
www.adfweb.com?Product=HD67599
www.adfweb.com?Product=HD67590
www.adfweb.com?Product=HD67590
www.adfweb.com?Product=HD67591
www.adfweb.com?Product=HD67591
www.adfweb.com?Product=HD67592
www.adfweb.com?Product=HD67592

(M-Bus)
(CAN)
(DeviceNet Master)
(DeviceNet Slave)
(J1939)
(Serial RS232)
(Serial RS485)
(Modbus Master RS232)
(Modbus Master RS485)
(Modbus Slave RS232)
(Modbus Slave RS485)

Do you have an your customer protocol?

www.adfweb.com?Product=HD67003

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
1.001	12/03/2013	Dp	All	Add new chapters
1.002	09/04/2013	Fl	All	Revision
1.100	11/08/2025	Mdb	All	New design

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 are required for each individual application, legal and safety regulation. 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

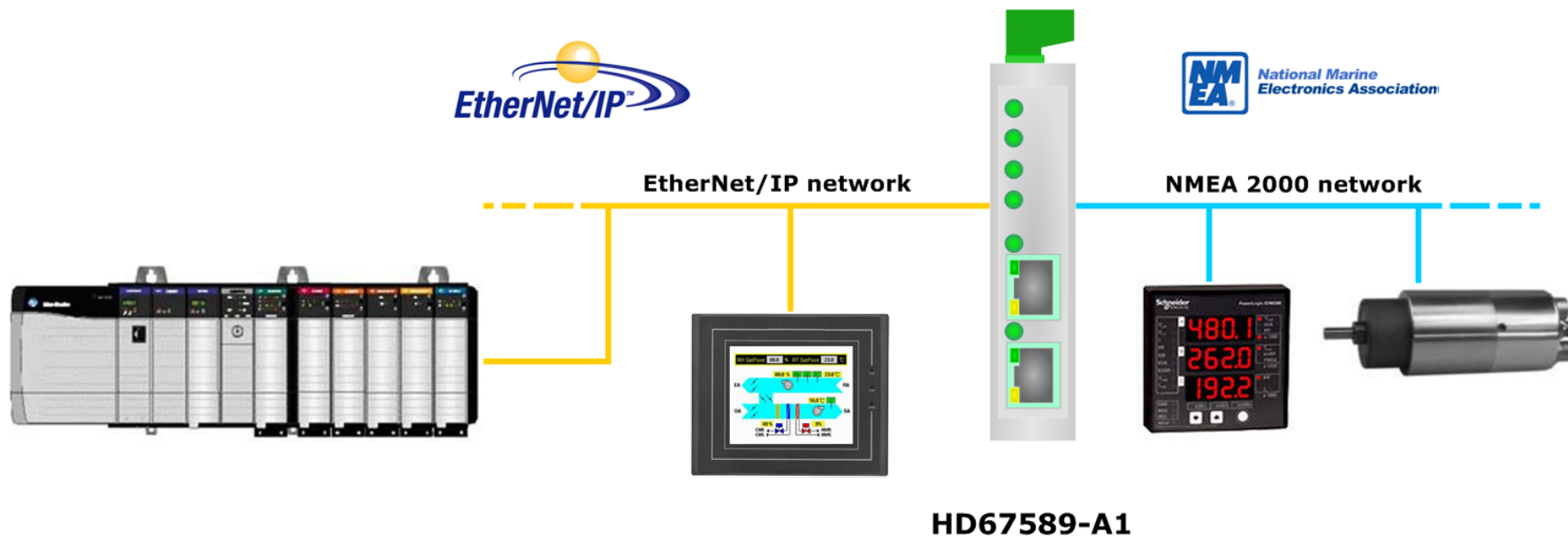
The device is state of the art and is safe. The instrument can represent a potential hazard if they are inappropriately installed and operated by personnel untrained. These instructions refer to residual risks with the following symbol:

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

CE CONFORMITY

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

EXAMPLE OF CONNECTION:



CONNECTION SCHEME:

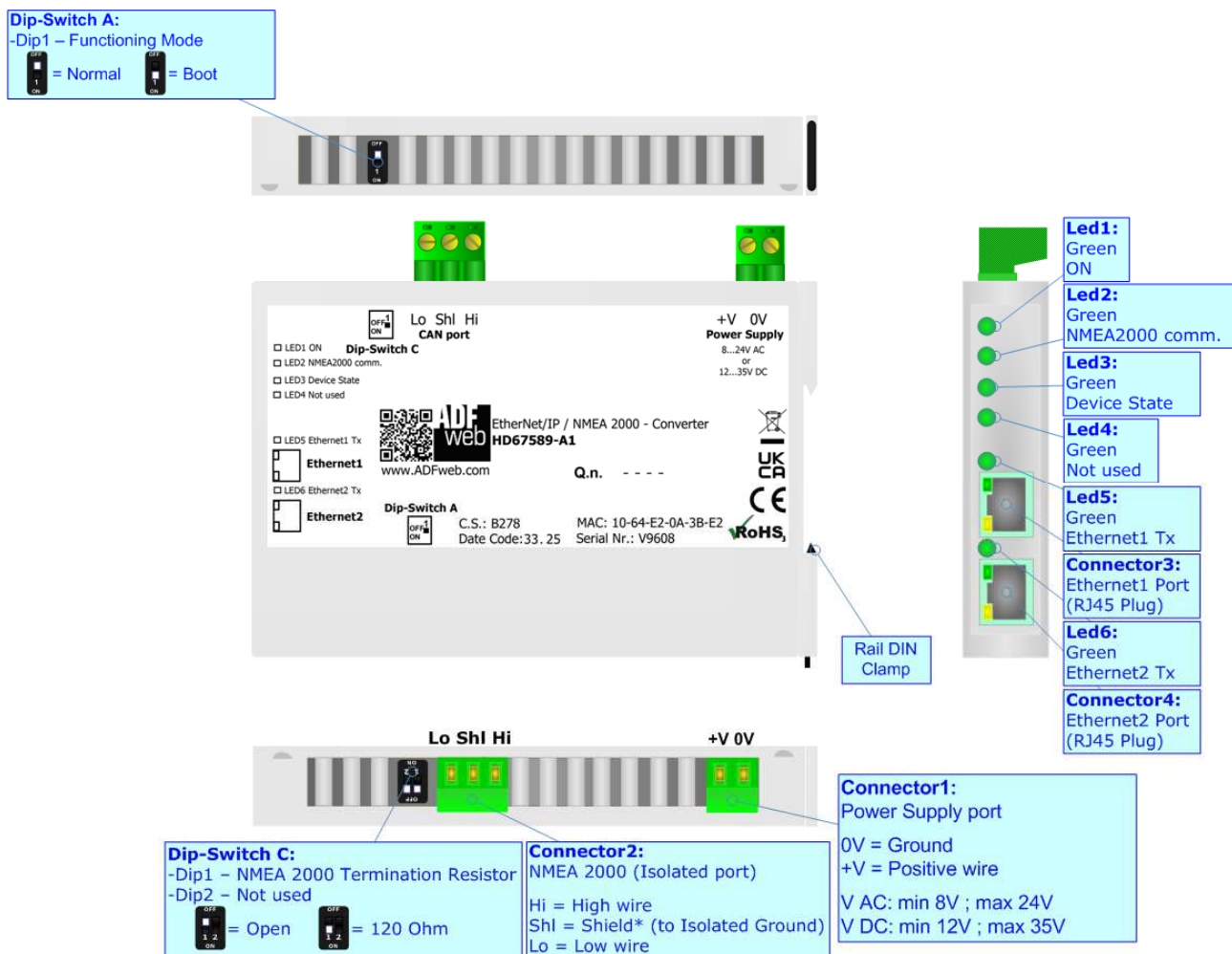


Figure 1: Connection scheme for HD67589-A1

CHARACTERISTICS:

The HD67589-A1 is a EtherNet/IP / NMEA 2000 Converter.

It allows the following characteristics:

- Up to 496 bytes in reading and 496 bytes in writing;
- Two-directional information between NMEA 2000 bus and EtherNet/IP 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 SW67589 software on your PC in order to perform the following:

- Define the parameter of EtherNet/IP line;
- Define the parameter of NMEA 2000 line;
- Determinate which EtherNet/IP byte transfer in NMEA 2000 and vice versa;
- Update the device.

POWER SUPPLY:

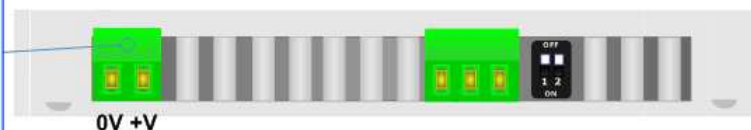
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

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

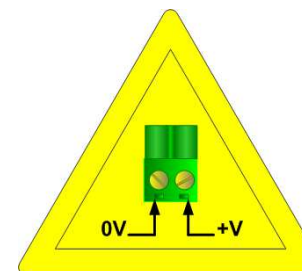
Consumption at 24V DC:

Device	Consumption [W/VA]
HD67589-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



HD67589-A1

FUNCTION MODES:

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

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

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

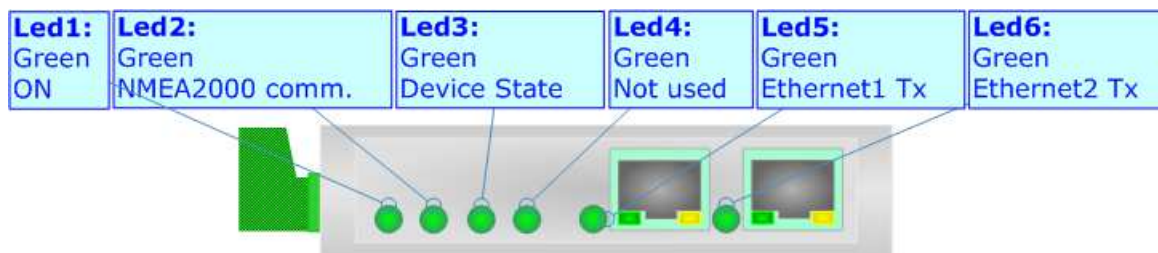
According to the functioning mode, the LEDs will have specifics functions, see 'LEDS' section.



LEDS:

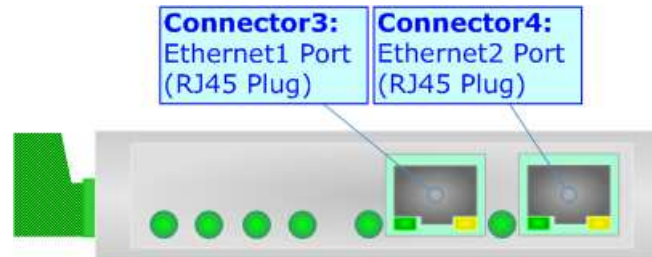
The device has got six LEDs that are used to give information of the functioning status. The various meanings of the LEDs are described in the table below.

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: NMEA 2000 comm. (green)	Change state when receive a NMEA 2000 frame defined in the Compositor	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Not used (yellow)	OFF	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet1 Tx (green)	Blinks quickly for a short time when sends Ethernet frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
6: Ethernet2 Tx (green)	Blinks quickly for a short time when sends Ethernet frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



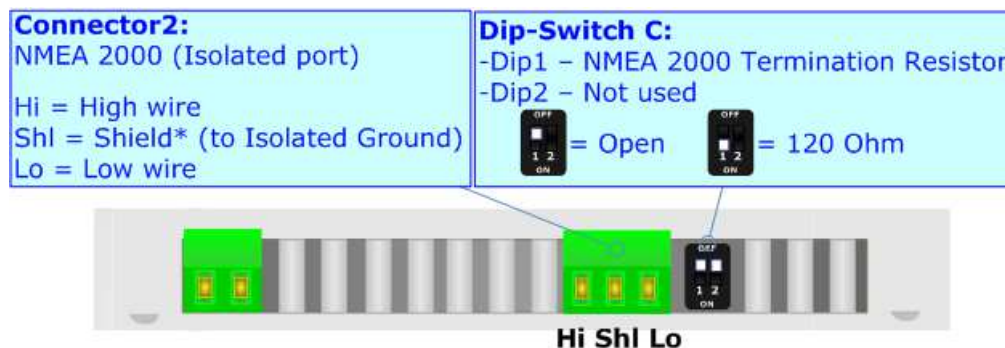
ETHERNET/IP:

The EtherNet/IP connection and updating of the device must be made using Connector3 and/or Connector4 of HD67589-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.



NMEA 2000:

For terminate the NMEA 2000 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 SW67589:

To configure the Converter, use the available software that runs with Windows, called SW67589. 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 SW67589 the right window appears (Fig. 2).



Note:

It is necessary to have installed .Net Framework 4.

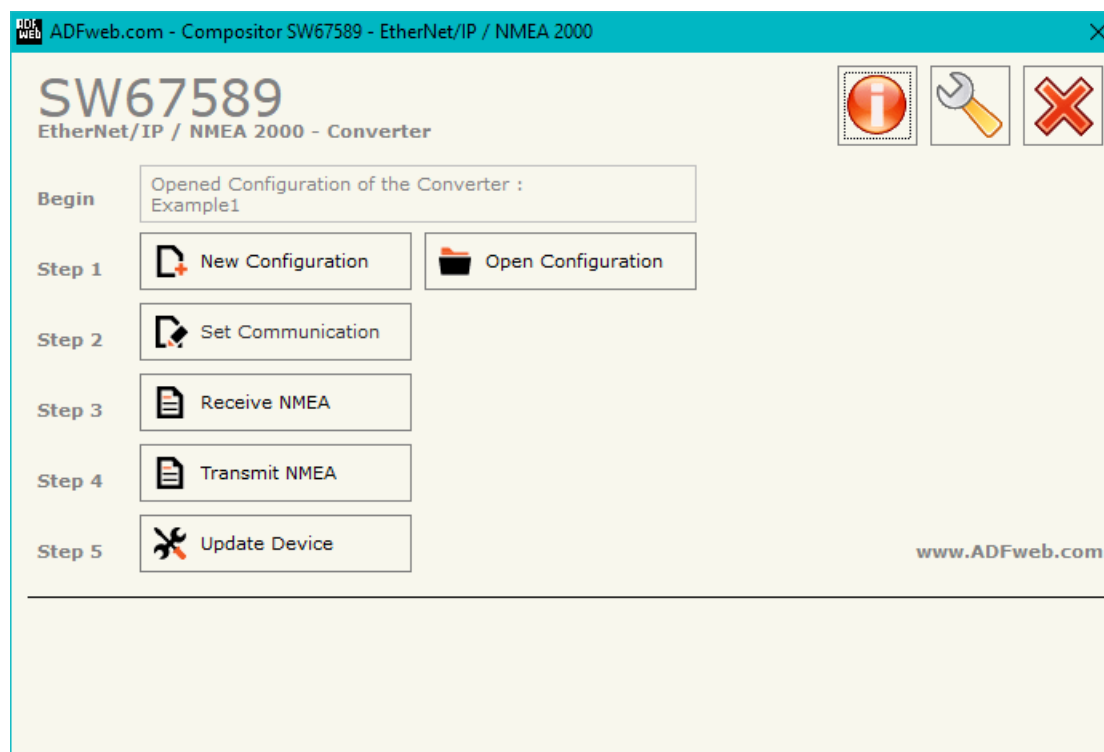
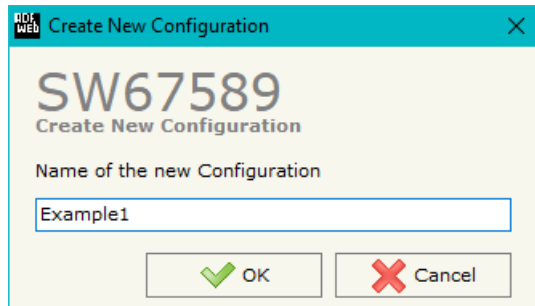


Figure 2: Main window for SW67589

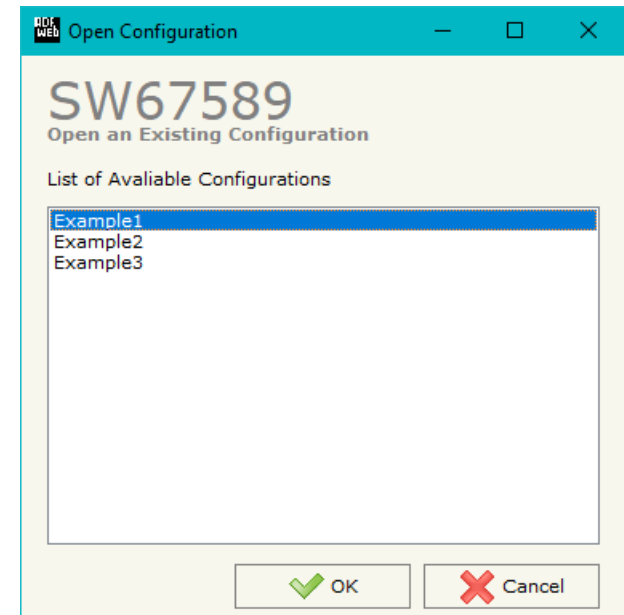
NEW CONFIGURATION / OPEN CONFIGURATION:

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




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

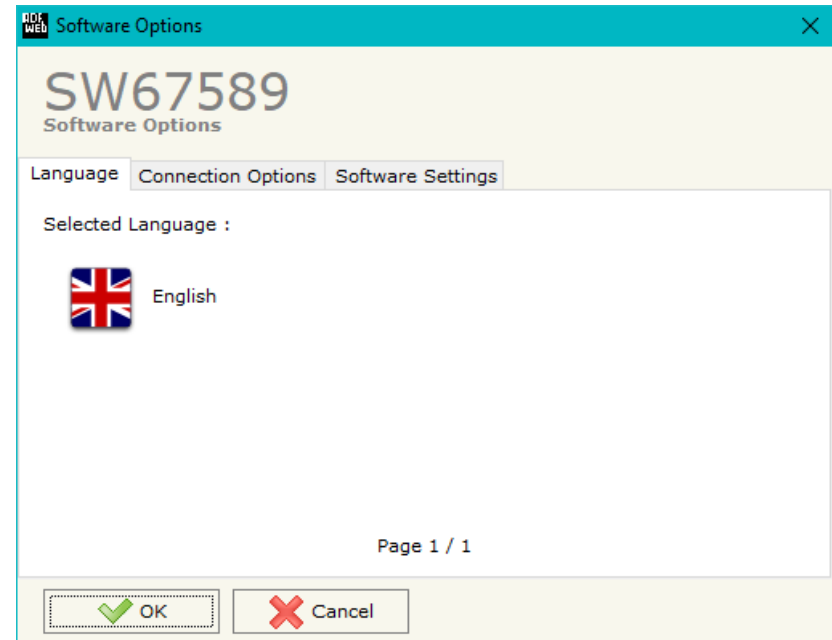
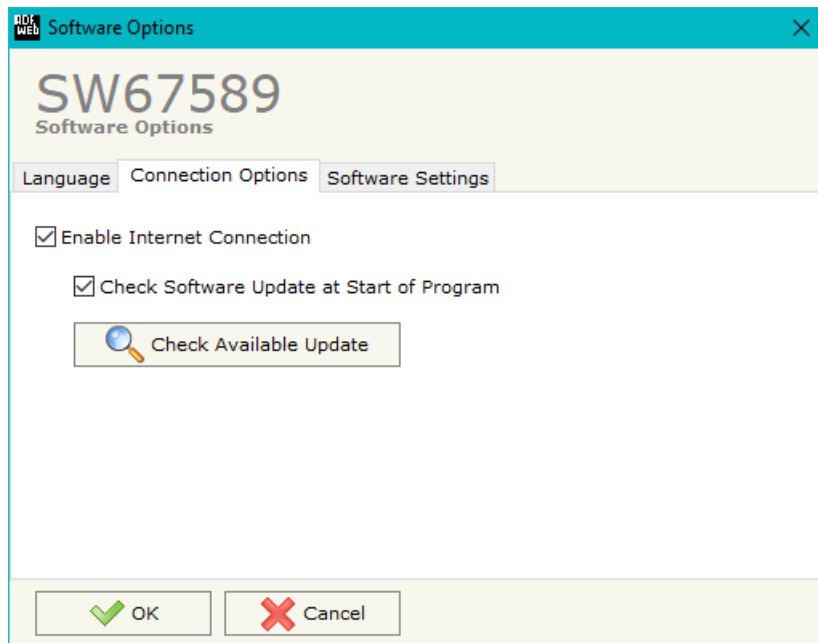
- To clone the configurations of a Programmable “EtherNet/IP / NMEA 2000 - Converter” in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button “**Open Configuration**”.



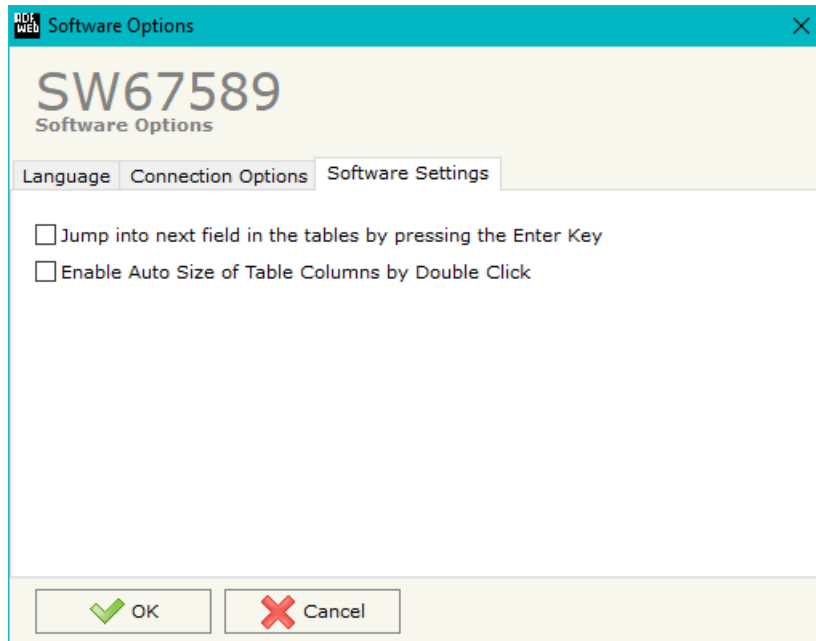
SOFTWARE OPTIONS:

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 SW67589 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, EtherNet/IP and NMEA 2000.

By Pressing the "**Set Communication**" button from the main window for SW67589 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for the EtherNet/IP and the other for the NMEA 2000.

The means of the fields for "EtherNet/IP" 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;
- In the field "**Port**" insert the number of port;
- In the field "**Number Byte Input**" the number of byte from the EtherNet/IP to the Converter is defined (at maximum it is possible to use 496 byte);
- In the field "**Number Byte Output**" the number of byte from the Converter to the EtherNet/IP is defined (at maximum it is possible to use 496 byte).

The means of the fields for the "NMEA 2000" section are:

- In the field "**Baudrate**" the baudrate for the NMEA2000 is defined;
- In the field "**TimeOut Data (s)**" insert a time, when this time is elapsed the data of NMEA 2000 frame will be cancel;
- If the field "**Enable Peer to Peer**" is checked the gateway accept any ID that have the PGN inserted in the section "Receive NMEA".

The screenshot shows a software window titled "Set Communication" for device "SW67589". It is divided into two sections. The "EtherNet/IP" section has a close button (X) and contains: IP ADDRESS (192.168.0.5), SUBNET Mask (255.255.255.0), a checkbox for GATEWAY (unchecked), Port (44818), Number Byte Input (496), and Number Byte Output (496). The "NMEA 2000" section also has a close button (X) and contains: Baudrate (250K), Time Out Data (s) (10), and an "Enable Peer to Peer" checkbox (unchecked). At the bottom are "OK" and "Cancel" buttons.

Figure 3: "Set Communication" window

RECEIVE FRAMES:

By pressing the "Receive Frames" button from the main window for SW67589 (Fig. 2) the window "Receive Frames" appears (Fig. 4).

The data of the columns have the following meanings:

- In the field "PGN" insert the PGN of the data you would like to read from EtherNet/IP to NMEA 2000, this field include also the DataPage (it is an identifier);
- In the field "Source Address" insert the address of the device that sends the frame;
- If the field "Transport Protocol" is checked the frame use transport protocol functions;
- If the field "Fast Packet" is checked the frame use the Fast Packet Protocol;
- In the field "StartByte" insert the byte which you would start read, this field is enable only when the field Transport Protocol or Fast Packet or both are checked;
- In the field "N° Byte" insert the number of byte you would read, for example your start byte is 20 an N°byte is 10, you can read the byte from 20 to 30;
- If the field "Cancel Data" is checked, the data in the frame will be erased after the expiration of the "TimeOut Data";
- In the field "Mnemonic" the description for the frame is defined.

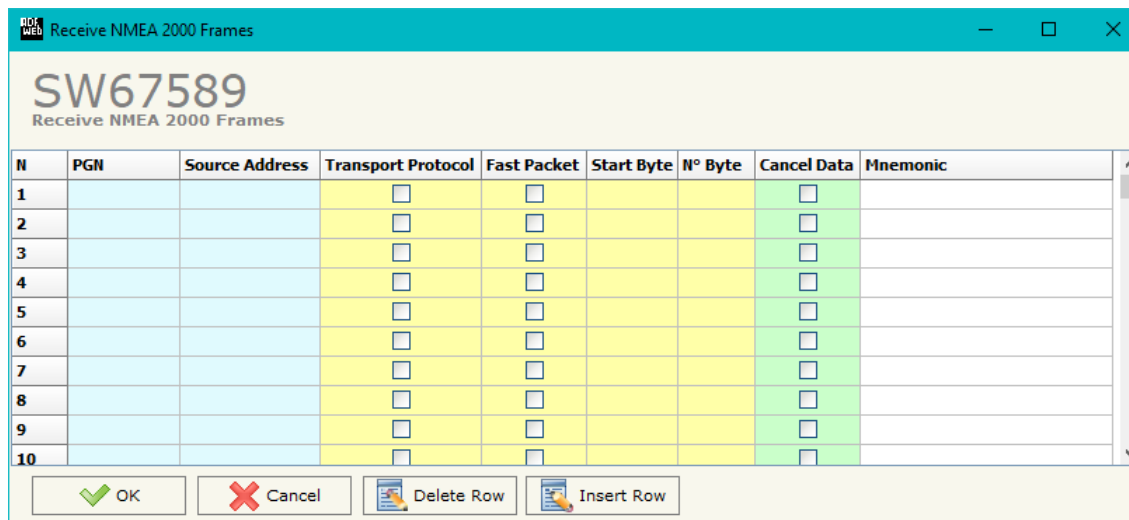


Figure 4: "Receive NMEA 2000 Frames" window

It is possible to configure a maximum of 62 frames in the "Receive NMEA 2000 Frames" section.

SEND FRAMES:

By pressing the **“Transmit Frames”** button from the main window for SW67589 (Fig. 2) the window **“Transmit Frames”** appears (Fig. 5).

The data of the columns have the following meanings:

- In the field **“Priority”** insert the priority of the Frame: in NMEA 2000 protocol it is a number among 0,1,2,3,4,5,6,7. The number **“0”** is the highest priority and **“7”** is the lowest;
- In the field **“PGN”** insert the PGN of the data you would like to write from EtherNet/IP to NMEA 2000, this field include also the DataPage (in NMEA 2000 protocol the PGN is an identifier);
- In the field **“Source Address”** insert the address of the device that sends the frame;
- If the field **“Transport Protocol”** is checked the Converter use the transport protocol functions;
- If the field **“Fast Packet”** is checked the Converter use the Fast Packet Protocol;
- In the field **“Num Byte”** the quantity of bytes for the Transport Protocol or Fast Packet Protocol is defined. This field is valid only if the Transport Protocol or Fast Protocol is selected;
- In the field **“Transmission Type”** is possible to select the way to send the frames in the NMEA 2000 network. The option are **“On Data Change”** (the frame will be sent when the data change in the EtherNet/IP array), or **“On Timer”** (the frame will be sent cyclically with a timer defined in the field **“Send Timer”**);
- In the field **“Send Timer”** the timer to send the frame is selected, it is valid only if in the field **“Transmission Type”** is selected the **“On Timer”** option;
- In the field **“Mnemonic”** the description for the frame is defined.

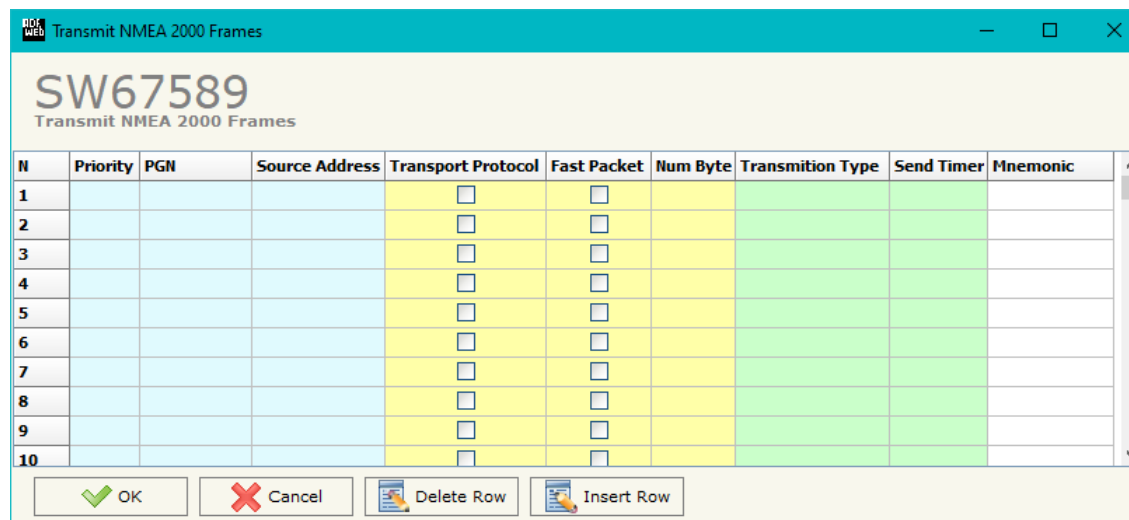


Figure 5: **“Transmit NMEA 2000 Frames”** window

It is possible to configure a maximum of 62 frames in the **“Send NMEA 2000 Frames”** section.

UPDATE DEVICE VIA UDP:

By pressing the **Update Device via UDP** button it is possible to load the created Configuration into the device; and also the Firmware, if is necessary.

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 B' at ON position;
- Turn on the device
- Connect the Ethernet cable;
- Insert the IP **"192.168.2.205"**;
- Press the **"Ping"** button, must appear **"Device Found!"**;
- Press the **"Next"** button;
- 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 B' at OFF position;
- Turn on the device.

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

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;
- Press the **"Ping"** button, must appear **"Device Found!"**;
- Press the **"Next"** button;
- 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 update.

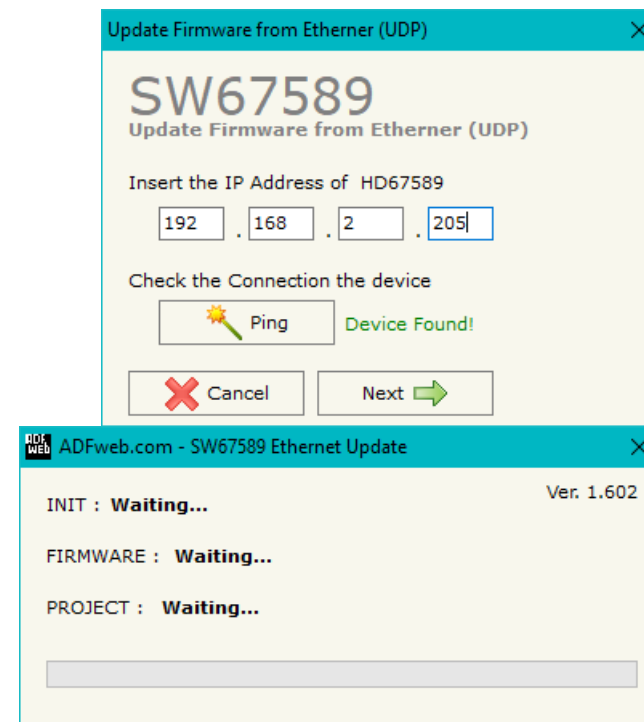


Figure 6: "Update device" windows

**Note:**

When you install a new version of the software it is better if the first time you do the update of the Firmware in the HD67589-A1 device.

**Note:**

When you receive the device, for the first time, you have to update also the Firmware in the HD67589-A1 device.

**Warning:**

If the Fig. 7 appears when you try to do the Update before require assistance try these points:

- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- 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 or 11 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

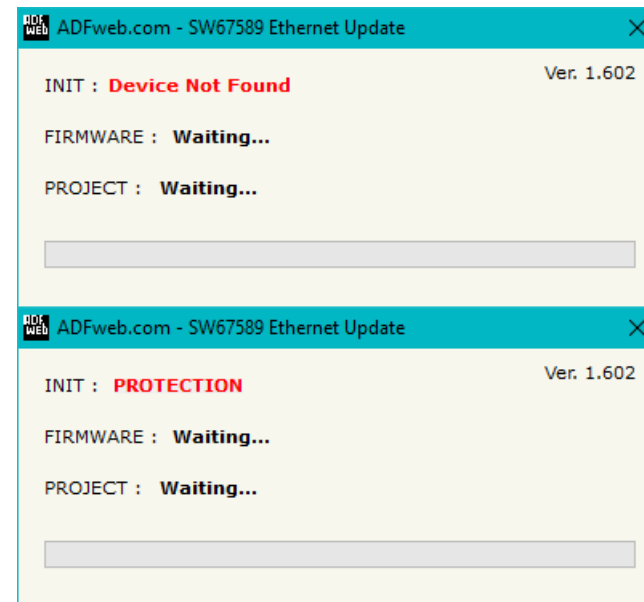


Figure 7: "Protection" window



In the case of HD67589-A1 you have to use the software "SW67589": www.adfweb.com/download/filefold/SW67589.zip.

MECHANICAL DIMENSIONS:

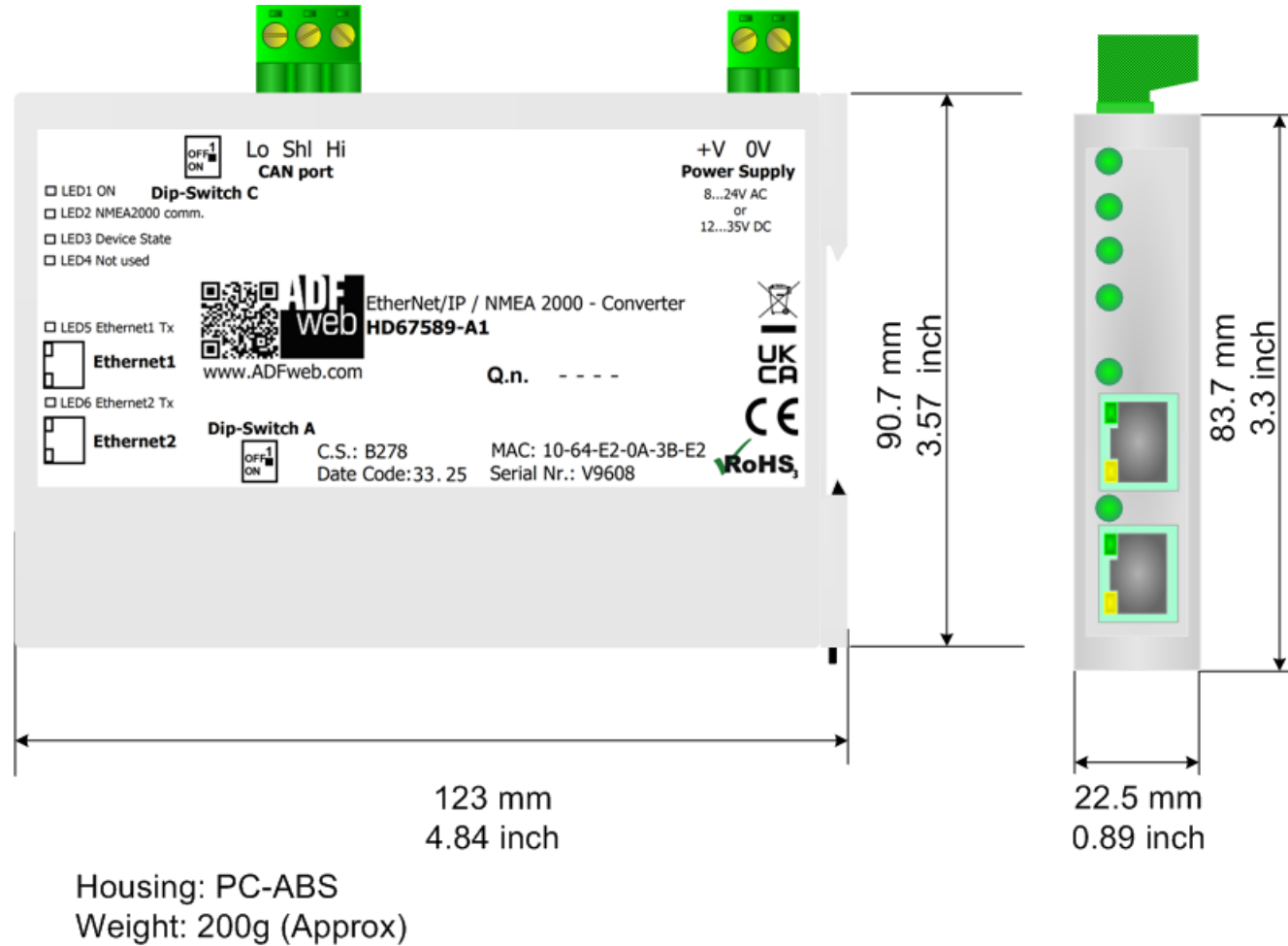
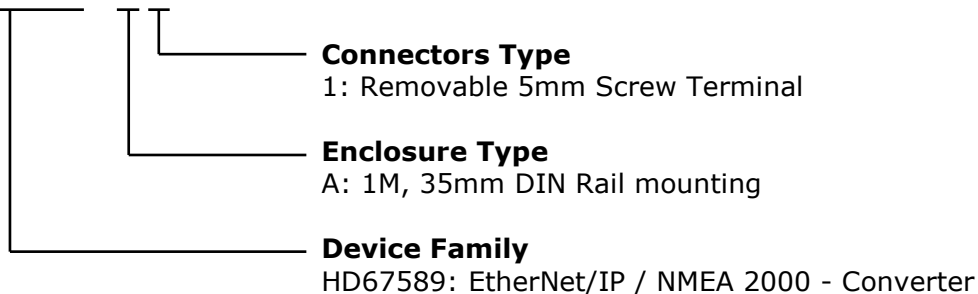


Figure 8: Mechanical dimensions scheme for HD67589-A1

ORDERING INFORMATIONS:

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

HD67589 - A 1



Order Code: **HD67589-A1** - Converter EtherNet/IP / NMEA 2000 Converter

ACCESSORIES:

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

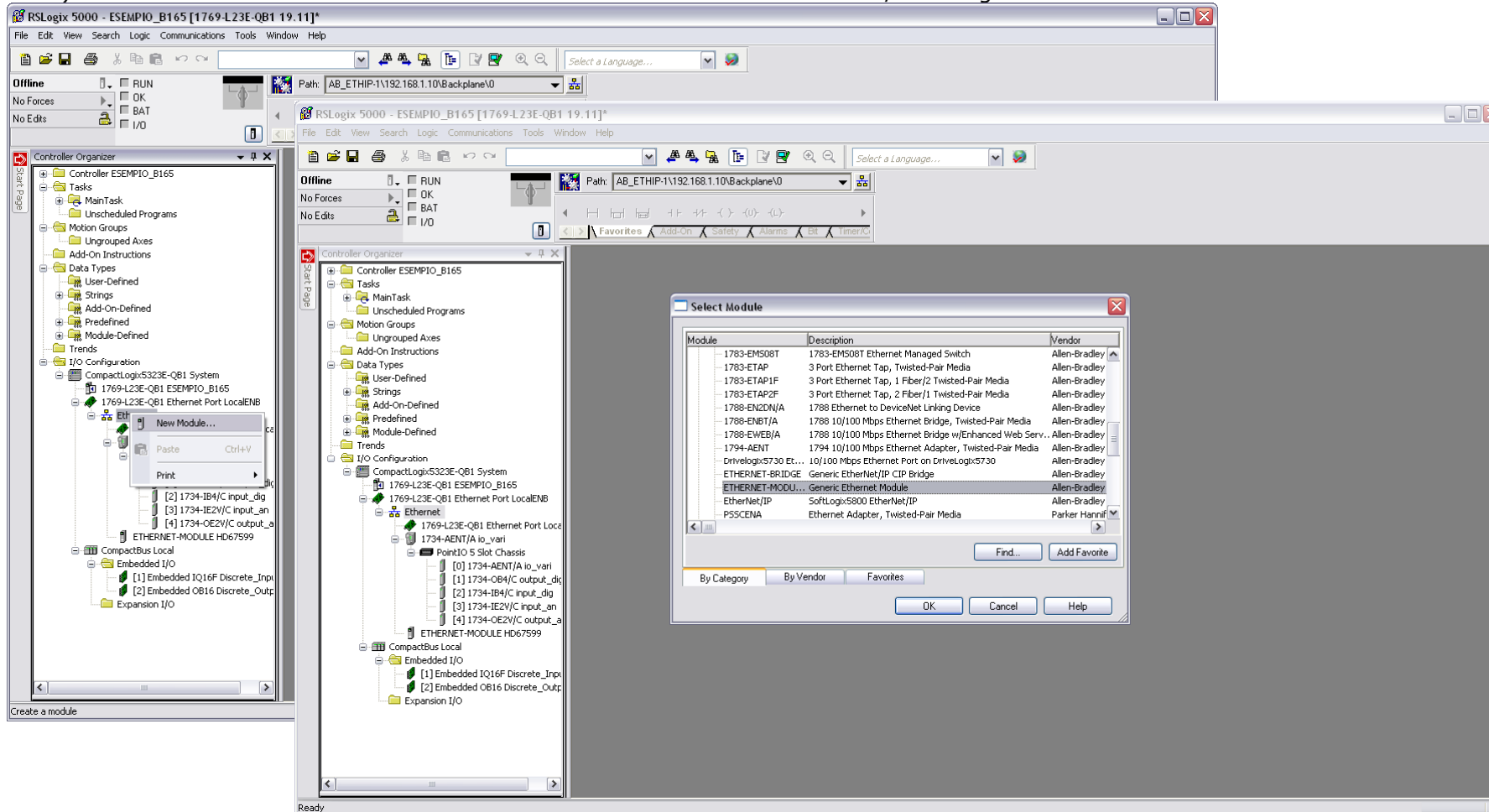
Order Code: **AC34012** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 24 V DC

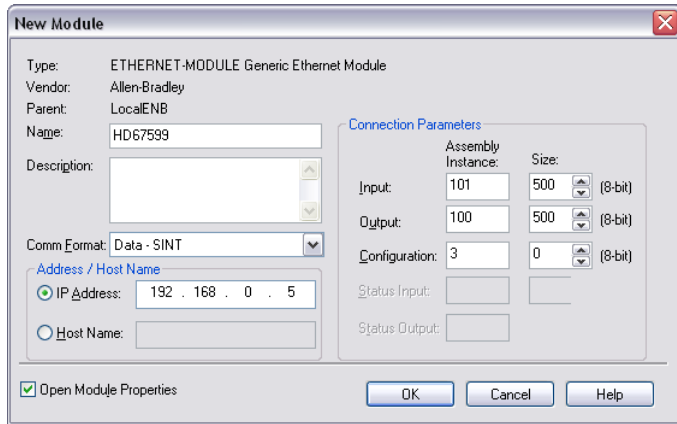
PLC CONFIGURATION:

The configuration and commissioning of the EtherNet/IP Converter as described on the following pages was accomplished with the help of the "RSLogix 5000" software of Rockwell Automation. In case of using a control system from another supplier please attend to the associated documentation.

These are the steps to follow:

- 1) Create a "Generic Ethernet Module" under the Ethernet section in the I/O Configuration tree.





2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67589" and the IP-address assigned is 192.168.0.5.

For the Comm Format "Data - SINT" shall be selected as the data type.

The HD67589-A1 can uses up to 496 bytes for input assembly instance 101 and 496 bytes for output assembly instance 100.

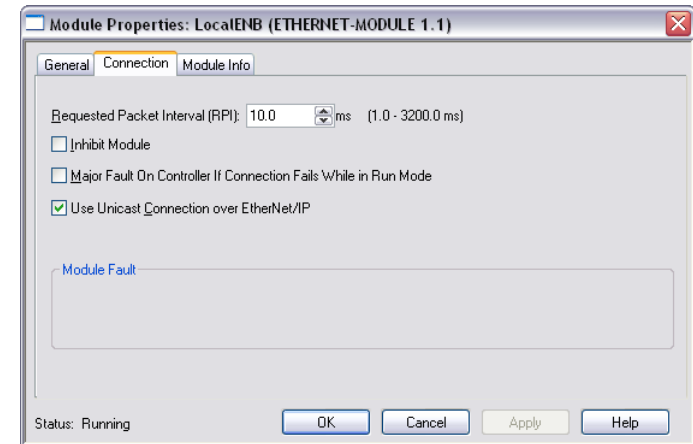
RSLogix 5000 requires a configuration assembly instance. Both modules do not provide a configuration assembly instance. Therefore it is allowed to select an instance of 3 and to set the value to zero.

3) The setting of 10msec for the "Requested Packet Interval (RPI)" is adequate but it is possible to change this value as required. A lower value of 2ms shall not be selected.



Warning:

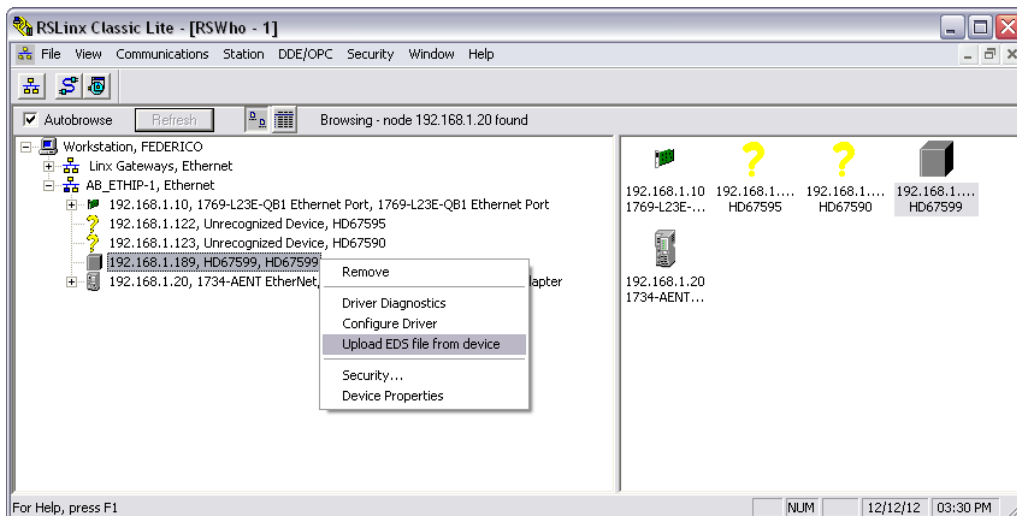
The field "Use Unicast Connection over EtherNet/IP" must be checked.



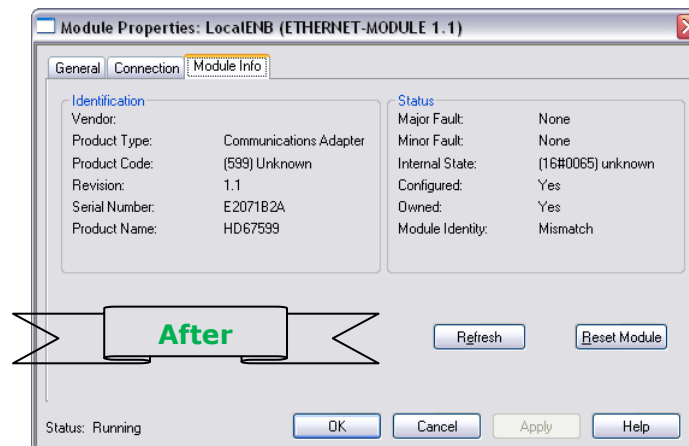
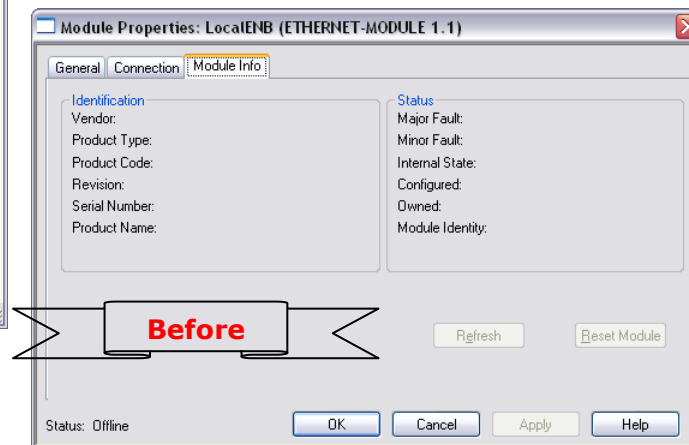
4) After the configuration is completed, the controller tags are created.

The screenshot shows the RSLogix 5000 interface with the Controller Organizer on the left and a table of Controller Tags in the center. The table has the following columns: Name, Value, Force Mask, Style, Data Type, Description, and Constant. The tags listed are:

Name	Value	Force Mask	Style	Data Type	Description	Constant
HD67591...	{...}	{...}	Decimal	SINT[500]		
HD67592	0		Decimal	SINT		
HD67593	0		Decimal	SINT		
HD67594	0		Decimal	SINT		
HD67595	0		Decimal	SINT		
HD67596	0		Decimal	SINT		
HD67597	0		Decimal	SINT		
HD67598	0		Decimal	SINT		
HD67599	0		Decimal	SINT		
HD67600	0		Decimal	SINT		
HD67601	0		Decimal	SINT		
HD67602	0		Decimal	SINT		
HD67603	0		Decimal	SINT		
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HD67616	0		Decimal	SINT		
HD67617	0		Decimal	SINT		
HD67618	0		Decimal	SINT		
HD67619	0		Decimal	SINT		
HD67620	0		Decimal	SINT		
HD67621	0		Decimal	SINT		
HD67622	0		Decimal	SINT		
HD67623	0		Decimal	SINT		
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HD67697	0		Decimal	SINT		
HD67698	0		Decimal	SINT		
HD67699	0		Decimal	SINT		
HD67700	0		Decimal	SINT		



5) With "RSLinks Classic Lite", after have done a network scan (RSWho), and finding the EtherNet/IP device, it is possible to load the EDS file for the device in order to have the "Module Info" compiled.



DISCLAIMER

All technical content within this document can be modified without notice. The content of the document content is a recurring audit. 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 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:

- 1) 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.
- 2) 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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