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User Manual

Revision 1.100 English

EtherNet/IP / Serial - Converter

(Order Code: HD67590-232-A1, HD67590-485-A1, HD67590-422-A1)

For Website information:

www.adfweb.com?Product=HD67590

For Price information:

www.adfweb.com?Price=HD67590-232-A1 www.adfweb.com?Price=HD67590-485-A1 www.adfweb.com?Price=HD67590-422-A1

Benefits and Main Features:

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



User Manual

For other EtherNet/IP products see also the following link:

Converter EtherNet/IP to

www.adfweb.com?Product=HD67077 www.adfweb.com?Product=HD67091 www.adfweb.com?Product=HD67159 www.adfweb.com?Product=HD67174 www.adfweb.com?Product=HD67588 www.adfweb.com?Product=HD67589 www.adfweb.com?Product=HD67591 www.adfweb.com?Product=HD67592 www.adfweb.com?Product=HD67593 www.adfweb.com?Product=HD67594 www.adfweb.com?Product=HD67595 www.adfweb.com?Product=HD67596 www.adfweb.com?Product=HD67597 www.adfweb.com?Product=HD67598 www.adfweb.com?Product=HD67599 www.adfweb.com?Product=HD67627 www.adfweb.com?Product=HD67660 www.adfweb.com?Product=HD67663 www.adfweb.com?Product=HD67664 www.adfweb.com?Product=HD67682 www.adfweb.com?Product=HD67722 www.adfweb.com?Product=HD67744 www.adfweb.com?Product=HD67771 www.adfweb.com?Product=HD67807 www.adfweb.com?Product=HD67840 www.adfweb.com?Product=HD67871 www.adfweb.com?Product=HD67906 www.adfweb.com?Product=HD67945 www.adfweb.com?Product=HD67974 www.adfweb.com?Product=HD67B16 www.adfweb.com?Product=HD67B39 www.adfweb.com?Product=HD67B78 www.adfweb.com?Product=HD67C63 www.adfweb.com?Product=HD67D25 www.adfweb.com?Product=HD67E27 www.adfweb.com?Product=HD67E77 www.adfweb.com?Product=HD67F25

(M-Bus) (M-Bus Wireless) (SNMP Agent) (SNMP Manager) (DMX) (NMEA 2000) (Modbus Master) (Modbus Slave) (PROFIBUS Master) (PROFIBUS Slave) (CAN) (CANopen) (DeviceNet Master) (DeviceNet Slave) (J1939) (S7comm) (PROFINET Slave) (Modbus TCP Slave) (Modbus TCP Master) (BACnet IP Slave) (BACnet IP Master) (IEC 61850 Server) (IEC 61850 Client) (KNX) (DALI) (IO-Link Master) (HART) (MOTT) (IO-Link Slave) (OPC UA Client) (OPC UA Server) (PROFINET Master) (EnOcean) (LoRaWAN) (EtherCAT Slave) (EtherCAT Master) (LoRaWAN Gatewav)



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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 <u>www.adfweb.com/download/</u> 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	05/08/2014	Ff	All	Revision
1.003	23/07/2024	Ln	All	Revision
1.100	26/06/2025	Mdb	All	New design

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ADFweb.com is not responsible for any error this manual may contain.

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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.

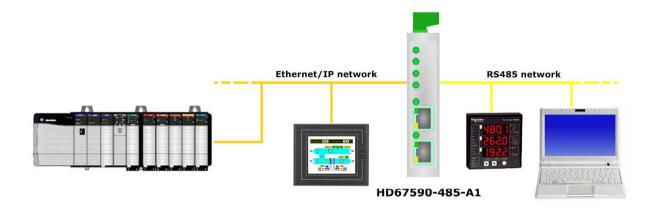
CE CONFORMITY

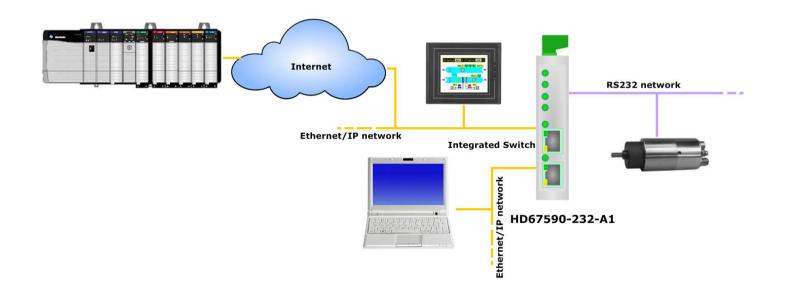
The declaration is made by our company. You can send an email to <u>support@adfweb.com</u> or give us a call if you need it.



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EXAMPLE OF CONNECTION:







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CONNECTION SCHEME:

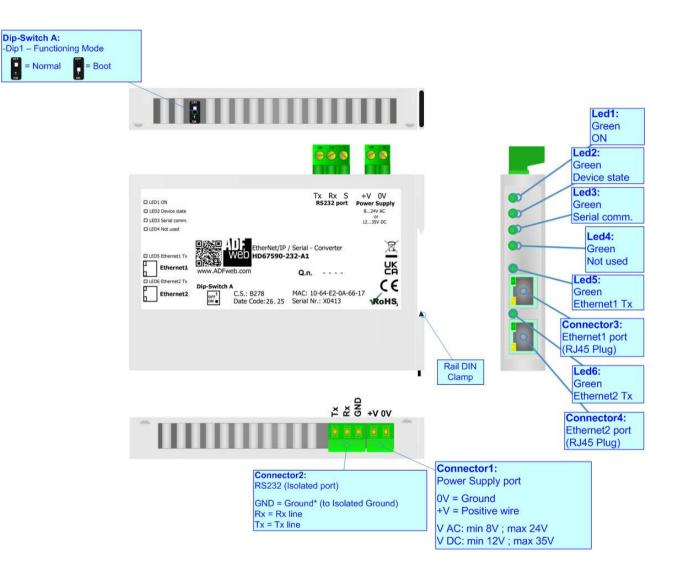


Figure 1a: Connection scheme for HD67590-232-A1



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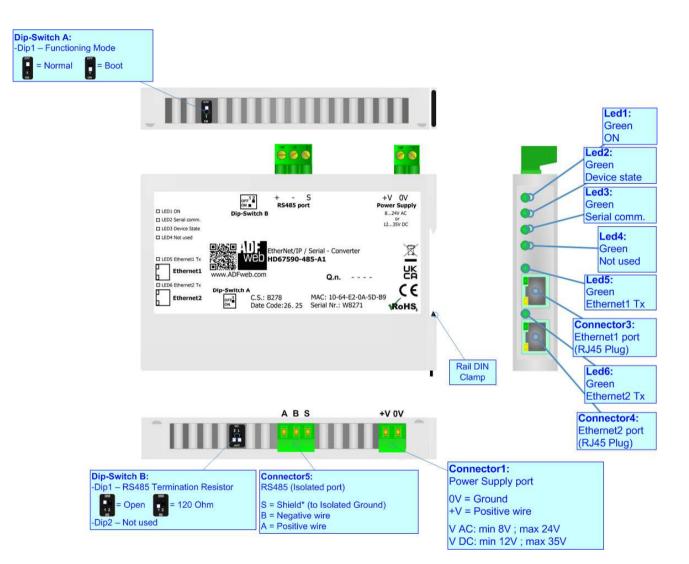


Figure 1b: Connection scheme for HD67590-485-A1

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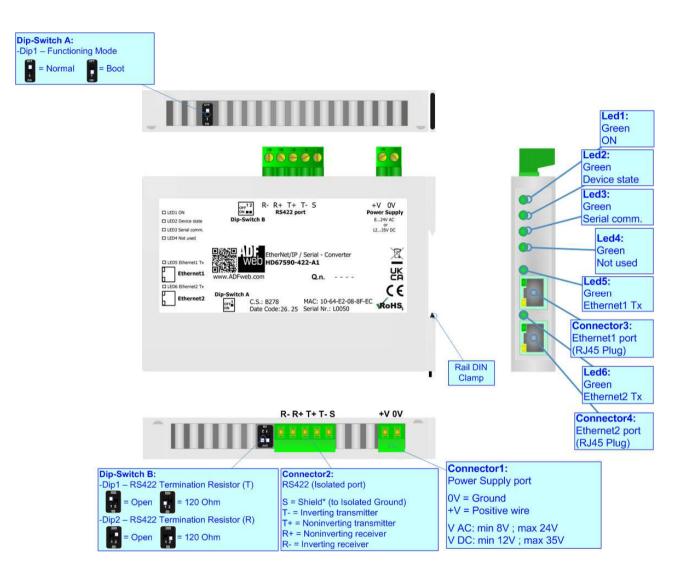


Figure 1c: Connection scheme for HD67590-422-A1



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CHARACTERISTICS:

The HD67590-232-A1, HD67590-485-A1 and HD67590-422-A1 are a Ethernet/IP / Serial Converter.

It allows the following characteristics:

- ✤ Up to 496 bytes in reading and 496 bytes in writing;
- Two-directional information between Serial 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 SW67590 software on your PC in order to perform the following:

- Define the parameter of Ethernet/IP line;
- Define the parameter of Serial line;
- Update the device.



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POWER SUPPLY:

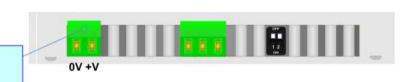
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

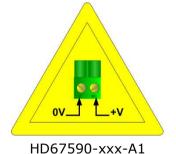
VAC ~~		VDC	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

Consumption at 24V DC:

Device	Consumption [W/VA]
HD67590-232-A1	3.5
HD67590-485-A1	3.5
HD67590-422-A1	3.5

Caution: Not reverse the polarity power





Connector1: Power Supply port 0V = Ground +V = Positive wire

V AC: min 8V ; max 24V V DC: min 12V ; max 35V



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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).

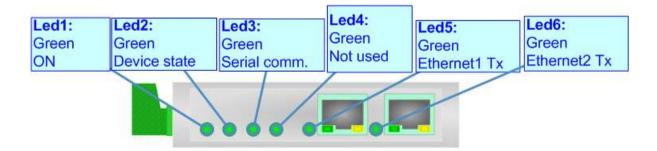




LEDS:

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 (green)	ON: Device powered	ON: Device powered
	OFF: Device not powered	OFF: Device not powered
2: Dovice state (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state
2: Device state (green)		Blinks very slowly (~0.5Hz): update in progress
2. Carial comm (groon)	Blinks when Serial data are received	Blinks quickly: Boot state
3: Serial comm. (green)	Billiks when Senal data are received	Blinks very slowly (~0.5Hz): update in progress
4. Not used (green)	OFF	Blinks quickly: Boot state
4: Not used (green)	OFF	Blinks very slowly (~0.5Hz): update in progress
E: Ethornot 1 Ty (groon)	Plinks when is transmitting Ethernet, frames	Blinks quickly: Boot state
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress
(. Ethernet? Ty (green)	Diple when is transmitting Ethernat frames	Blinks quickly: Boot state
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress

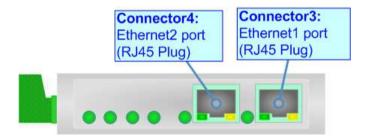




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ETHERNET/IP:

The Ethernet/IP connection must be made using Connector3 and/or Connector4 of HD67590-xxx-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.



RS232:

The connection from RS232 socket to a serial port (example one from a personal computer) must be made with a NULL MODEM cable (a serial cable where the pins 2 and 3 are crossed).

It is recommended that the RS232 cable not exceed 15 meters.

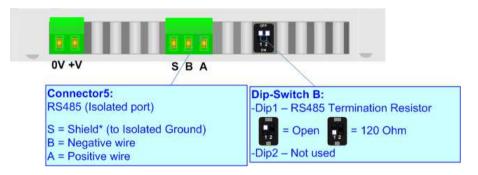
		Ó	
ov v	/+ GND	Rx	Connector2:
			RS232 (Isolated port) GND = Ground* (to Isolated Ground) Rx = Rx line Tx = Tx line



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RS485:

For terminate the RS485 line with a 220Ω resistor it is necessary to put ON dip 1, like in figure.



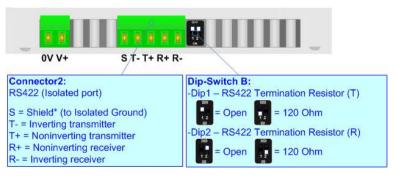
The maximum length of the cable should be 1200m (4000 feet).

Here some codes of cables:

- Belden: p/n 8132 2x 28AWG stranded twisted pairs conductor + foil shield + braid shield;
- Belden p/n 82842 2x 24AWG stranded twisted pairs conductor + foil shield + braid shield;
- Tasker: p/n C521 1x 24AWG twisted pair conductor + foil shield + braid shield;
- Tasker: p/n C522 2x 24AWG twisted pairs conductor + foil shield + braid shield.

RS422:

For terminate the RS422 line with a 120Ω resistor it is necessary to put ON dip 1 for T line and/or put ON dip 2 for R line, like in figure. The maximum length of the cable should be 1200m (4000 feet).





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USE OF COMPOSITOR SW67590:

To configure the Converter, use the available software that runs with Windows called SW67590. It is downloadable on the site <u>www.adfweb.com</u> 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 SW67590, the window below appears (Fig. 2).



It is necessary to have installed .Net Framework 4.

	7590	
	/ Serial - Converter	
	Opened Configuration of the Converter : ixample1	
Step 1	New Configuration	
Step 2	Set Communication	
Step 3	Y Update Device	www.ADFweb.com

Figure 2: Main window for SW67590



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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 / Serial 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".

Web Open Configuration	—		×
SW67590 Open an Existing Configuration List of Available Configurations			
Example1 Example2 Example3			
✓ ок		Cance	el



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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.

Web Software	Ontions		×
SW	67590		
Language	Connection Options	Software Settings	
_	E Internet Connection neck Software Update		
V	ок 🔀 с	ancel	

	Web Software	Options		×
5	Software	67590		
	Language	Connection Options	Software Settings	
	Selected	Language : English		
		English	Page 1 / 1	
	\checkmark	ок	ancel	

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 SW67590 check automatically if there are updatings when it is launched.

DF web			
	Industrial	Electronic	Devices

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Web Software	Options		
	67590		
Language	Connection Options	Software Settings	
	nto next field in the ta		
V	ок 🗶 с	ancel	

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.



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SET COMMUNICATION:

This section define the fundamental communication parameters of two buses, EtherNet/IP and Serial.

By Pressing the "**Set Communication**" button from the main window for SW67590 (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 Serial.

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. This feature is used for going out of the net;
- ✤ In the field "Port", the port for the EtherNet/IP communication is defined (fixed to `44818').

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

- In the field "Serial" the serial to use is defined (RS232 or RS485);
- In the field "Baudrate" the baudrate for the serial line is defined;
- In the field "Parity" the parity of the serial line is defined;
- In the field "DataBits" the number of data bits used for the serial line communication is defined.

Set Commu	nication	×
	7590	
EtherNet/IP		\times
IP ADDRES	S	
192	. 168 . 0 . 10	
SUBNET Ma	ask	
255	. 255 . 255 . 0	1
GATEWA		
		1
192	. 168 . 0 . 1	
Port	44818	
Serial		\mathbf{X}
Serial	RS485 ~	
Baudrate	115200 ~	
Parity	NONE	
Data Bits	8 Bits ~	
	OK Cance	: I

Figure 3: "Set Communication" window



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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.

he	Update Firmware from Etherner (UDP)	×
	SW67590 Update Firmware from Etherner (UDP)	
	Insert the IP Address of HD67590	
	Check the Connection the device	
	Cancel Next 📫	
LADFw	veb.com - SW67590 Ethernet Update	×
INIT :	Waiting	Ver. 1.602
FIRMV	VARE : Waiting	
PROJE	CT : Waiting	

Figure 4: "Update device" windows



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Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67590 device.

<u>Warning:</u>

If Fig. 5 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 or 11 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.

ADFweb.com - SW67590 Ethernet Update	~
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67590 Ethernet Update	×
INIT : PROTECTION	× Ver. 1.602
INIT : PROTECTION	
INIT : PROTECTION FIRMWARE : Waiting	

Figure 5: "Error" window



In the case of HD67590 you have to use the software "HD67590": <u>www.adfweb.com\download\filefold\SW67590.zip</u>.



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SERIAL PROTOCOL:

To send/receive EtherNet/IP data from a master device, it is necessary to follow these instructions:

Master EtherNet/IP → HD67590-xxx-A1

By	/te 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6
	YY	ZZ	Data				data

In the byte ZZ and the less significant bit of YY the length of data that follow must be written; the most significant bit of YY must be toggled every time a new message must be sent on serial.

			Byte () (YY)							Byte 1	L (ZZ)			
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	0	0	0	0	0									



Toggle between 0 and 1

- 0...498 (number of bytes to send on serial)
- 0 "0" must be written

Examples:

- Send on serial 4 bytes: 00 04 01 02 03 04
- Send again the same 4 bytes: 80 04 01 02 03 04
- Send 8 bytes: 00 08 05 06 07 08 09 0A 0B 0C



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HD67590-xxx-A1 → Master EtherNet/IP

Byte 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 7	Byte 6
YY	ZZ	Data				data

In the byte ZZ and the less significant bit of YY the length of data that follow is written; the other bits are used for send a progressive number .

	Byte 0 (YY)								Byte 1	L (ZZ)						
F	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0



0...127 (counter incremented after every frame received) 0...498 (number of bytes received from serial)

Examples:

- Received on serial 4 bytes: 02 04 01 02 03 04
- Received the same 4 bytes again: 04 04 01 02 03 04
- Received 8 bytes: 06 08 05 06 07 08 09 0A 0B 0C

Note:

The time for considering the receiving frame finished is when there is a idle time between bytes of 4tbit.

<u>Note:</u>

If the Converter receives more than 496 bytes in a single frame, the remaining bytes are deleted and only the firsts 496 are sent to the Master EtherNet/IP.

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MECHANICAL DIMENSIONS:

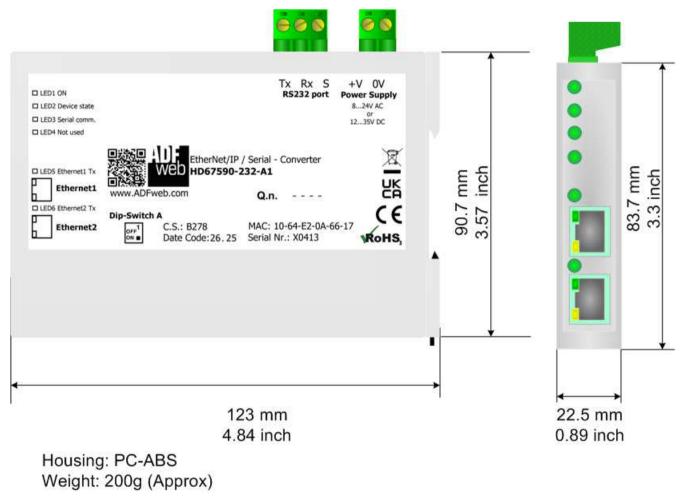


Figure 6a: Mechanical dimensions scheme for HD67590-232-A1

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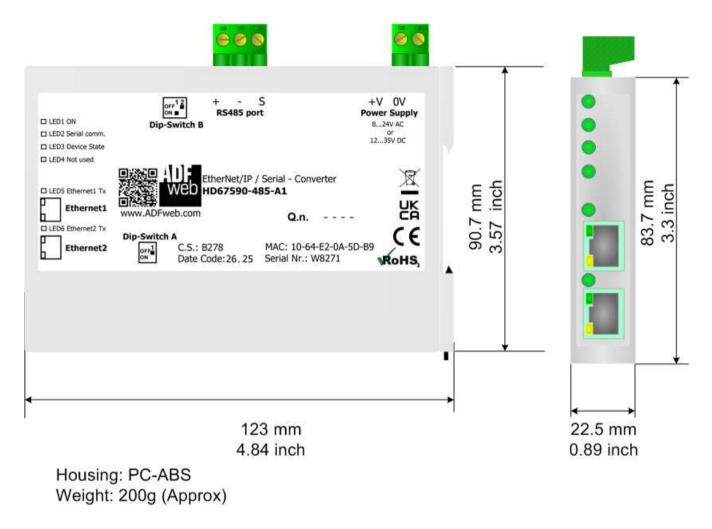


Figure 6b: Mechanical dimensions scheme for HD67590-485-A1

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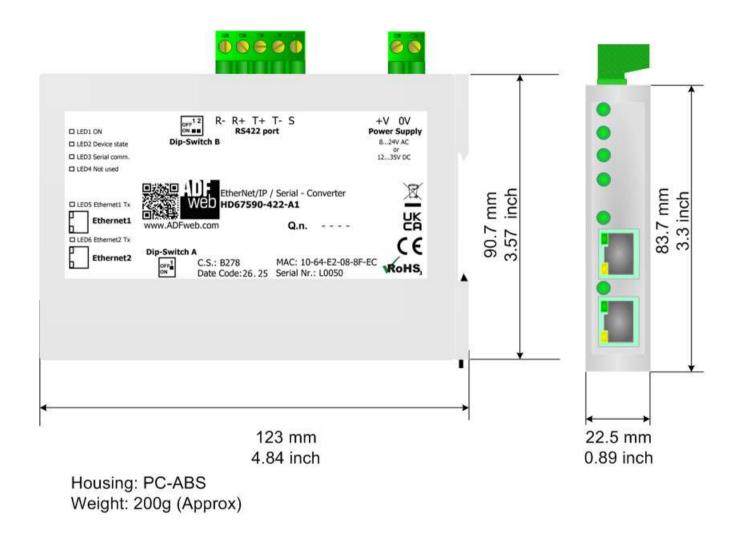


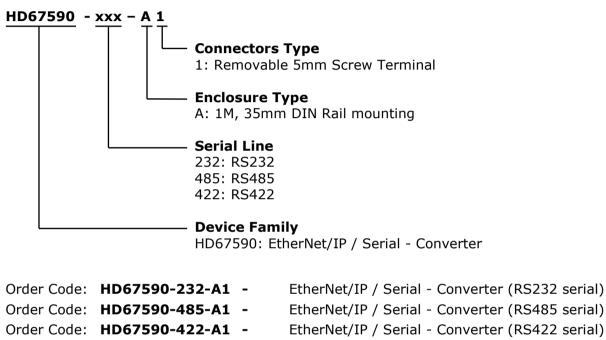
Figure 6c: Mechanical dimensions scheme for HD67590-422-A1

WeD Industrial Electronic Devices User Manual EtherNet/IP / Serial

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ORDERING INFORMATIONS:

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



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



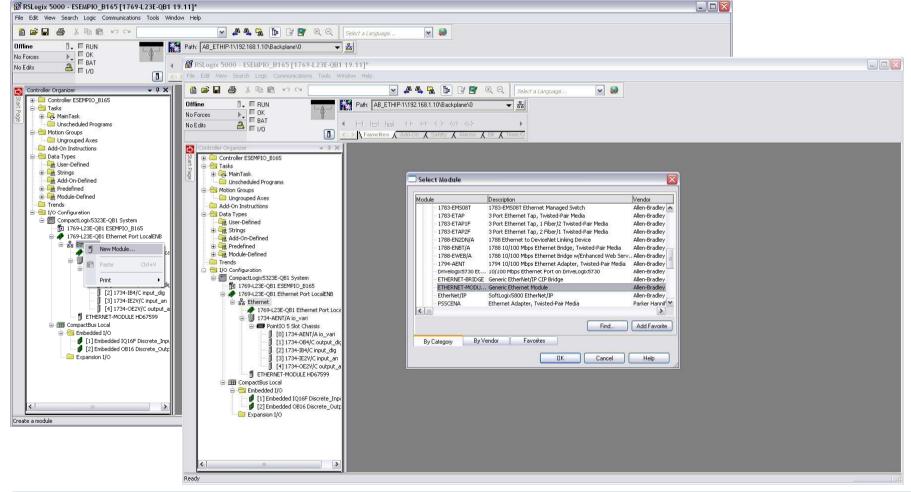
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PLC CONFIGURATION:

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:







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Colorer .	ETHERNET-MODULE Generic Ether Allen-Bradley LocalENB					
Na <u>m</u> e:	HD67599	Connection Para	ameters Assembly			
Description:			Instance:	Size:		
		Input:	101	500	*	(8-bit)
	<u>×</u>	O <u>u</u> tput:	100	500	*	(8-bit)
Comm <u>F</u> ormat	Data - SINT 🛛 😽	Configuration:	3	0	•	(8-bit)
Address / H	ost Name	<u>c</u> oningutation.	Ľ	-	*	(0°DI()
⊙ IP <u>A</u> ddre	::: 192 . 168 . 0 . 5	<u>Status Input</u>				
O <u>H</u> ost Nar	ne:	Status Output:				

2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67590" and the IP-address assigned is 192.168.0.5.

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

The HD67590-xxx-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.

General Connection Mod	dule Info
<u>R</u> equested Packet Interval	(RPI): 10.0 🐑 ms (1.0 - 3200.0 ms)
Inhibit Module	
Major Fault On Controlle	r If Connection Fails While in Run Mode
Use Unicast Connection	n over EtherNet/IP
Module Fault	
 Module Fault 	
Module Fault	
- Module Fault	
Module Fault	OK Cancel Apply Help

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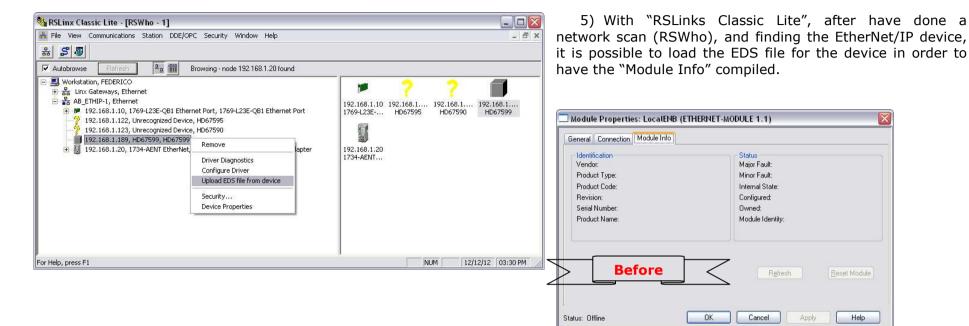
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4) After the configuration is completed, the controller tags are created.

bgix 5000 - ESEMPIO_B165 [1769-L23E-QB1 Edit View Search Logic Communications Tools									Ŀ
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	Path: AB_ETHIP-1\192.1								
		() -() -(L)-) b						
	Favorites 🖌 Add-On	K Safety K Alarmis K	Bit Timer/C						
roller Organizer 🚽 🗸 🛔	Scope: 🛐 ESEMPIO_B16	5 Y Show All Tags					~	🗙 Enter Name Filles	
Controller ESEMPIO_B165	Name ==[4 Valu		k + Style	Data Type	Description	Constant			
Controller Tags	HD67599:1	{}	{} Decimal	SINT[500]	Description	CONSIGN			
Power-Up Handler	+ HD6759	0	Decimal	SINT		-			
🔁 Tasks	HD6759	0	Decimal	SINT					
😑 🔁 MainTask	+ HD6759	0	Decimal	SINT					
Unscheduled Programs	+ HD6759	0	Decimal	SINT					
Motion Groups	+ HD6759	0	Decimal	SINT					
Ungrouped Axes	+ HD6759	0	Decimal	SINT		-			
Add-On Instructions	+ HD6759	0	Decimal	SINT					
🙀 User-Defined	+ HD6759 + HD6759	0	Decimal Decimal	SINT					
🕀 🕞 Strings	+ HD6759	0	Decimal	SINT					
	+ HD6759	0	Decimal	SINT					
Module-Defined	+ HD6759	0	Decimal	SINT					
Trends	+ HD6759	0	Decimal	SINT					
I/O Configuration ∃∽∰ CompactLogix5323E-QB1 System	+ HD6759	0	Decimal	SINT					
1769-L23E-QB1 ESEMPIO_B165	+ HD6759	0	Decimal	SINT					
🖃 🛷 1769-L23E-QB1 Ethernet Port LocalENB	+ HD6759	0	Decimal	SINT					
Ethernet	+ HD6759	0	Decimal	SINT					
1769-L23E-QB1 Ethernet Port Loca 1734-AENT/A io_vari	+ HD6759	0	Decimal	SINT					
PointIO 5 Slot Chassis		0	Decimal	SINT	_				
[0] 1734-AENT/A io_vari	+ HD6759 + HD6759	0	Decimal Decimal	SINT					
[] [1] 1734-OB4/C output_dic [] [2] 1734-IB4/C input_dig	± HD6759	0	Decimal	SINT					
[2] 1734-164/C input_dig	± HD6759	0	Decimal	SINT					
🔤 🗍 [4] 1734-OE2V/C output_a	+ HD6759	0	Decimal	SINT					
CompactBus Local	+ HD6759	0	Decimal	SINT					
Embedded I/O	+ HD6759	0	Decimal	SINT					
🗐 🗊 [1] Embedded IQ16F Discrete_Inpu	+ HD6759	0	Decimal	SINT					
[2] Embedded OB16 Discrete_Outp	+ HD6759	0	Decimal	SINT					
Expansion I/O	1 HD6759	0	Decimal	SINT					
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	± HD6759	0	Decimal	SINT					
	✓ Monitor Tags / Ed						<		



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Identification		Status			
Vendor:		Major Fault:	None		
Product Type:	Communications Adapter	Minor Fault	None		
Product Code:	(599) Unknown	Internal State:	(16#0065) unknown		
Revision:	1.1	Configured:	Yes		
Serial Number:	E2071B2A	Owned:	Yes		
Product Name:	HD67599	Module Identity:	Mismatch		
	ter	Refresh			



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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

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



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WARRANTIES AND TECHNICAL SUPPORT:

For fast and easy technical support for your ADFweb.com SRL products, consult our internet support at <u>www.adfweb.com</u>. 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 <u>www.adfweb.com</u>. 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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