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# User Manual

Revision 1.001 English

# EtherNet/IP / Modbus Slave - Converter

(Order Code: HD67592-232-A1, HD67592-485-A1)

for Website information:

# **Benefits and Main Features:**

- Very easy to configure
- Electrical isolation
- Two Ethernet/IP ports
- Temperature range: -40°C/85°C (-40°F/185°F)



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Other Products



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# User Manual Ethernet/IP / Modbus Slave - Converter

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### **REVISION LIST:**

Revision	Date	Author	Chapter	Description
1.000	25/06/2012	Fl	All	First release version
1.001	22/03/2013	Dp	All	Revision

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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 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**

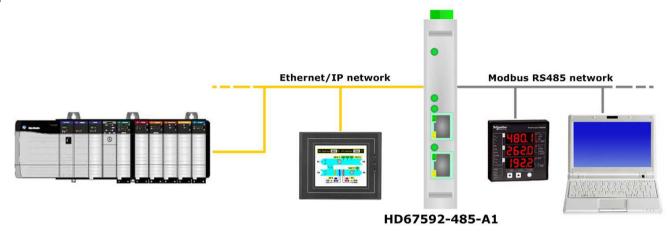
The declaration is made by us. You can send an email to or give us a call if you need it.

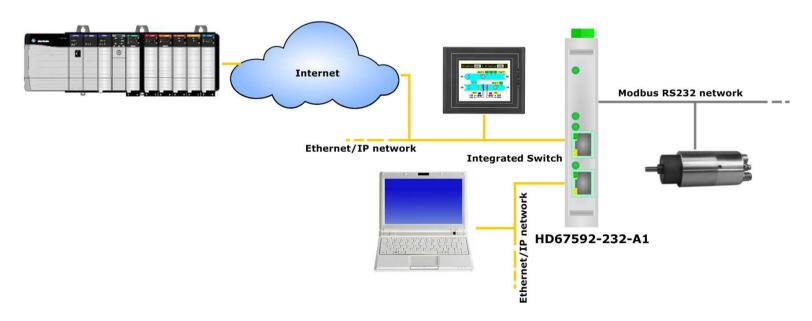
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### **EXAMPLE OF CONNECTION:**





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# **CONNECTION SCHEME:**

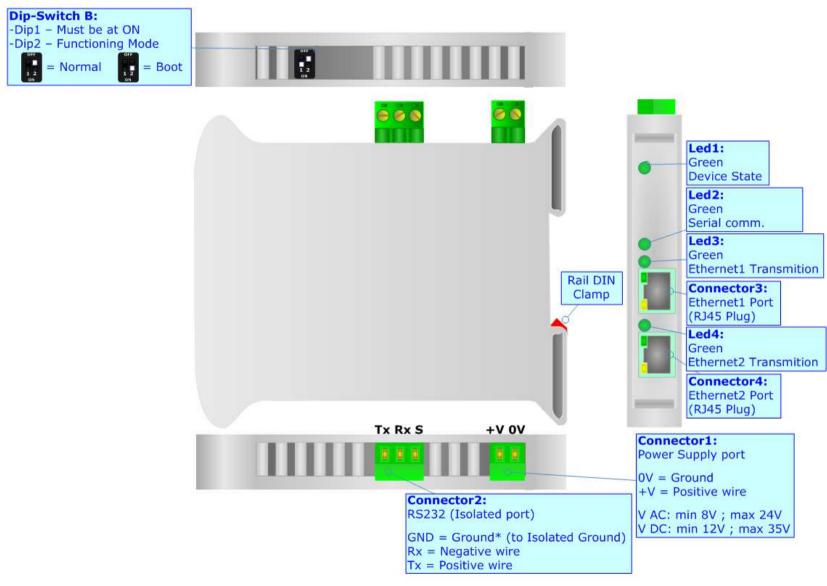


Figure 1a: Connection scheme for HD67592-232-A1

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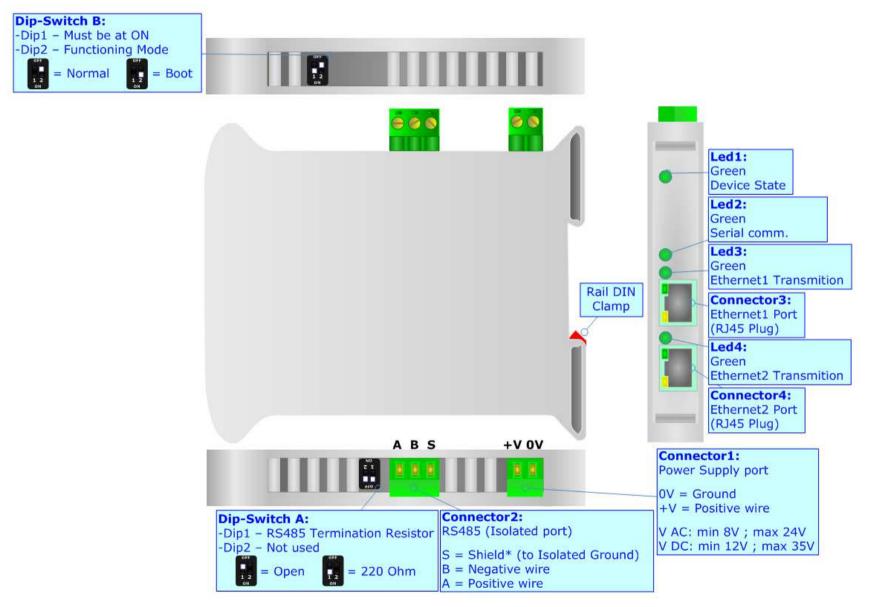


Figure 1b: Connection scheme for HD67592-485-A1

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# **CHARACTERISTICS:**

The HD67592-232-A1 and HD67592-485-A1 are a Ethernet/IP / Modbus Slave Converter.

It allows the following characteristics:

- → Up to 500 bytes in reading and 500 bytes in writing;
- → Two-directional information between Modbus bus and Ethernet/IP bus;
- → Mountable on 35mm Rail DIN;
- → Power Supply 8...24V AC or 12...35V DC;
- → Temperature range -40°C to 85°C.

### **CONFIGURATION:**

You need Compositor SW67592 software on your PC in order to perform the following:

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

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# **POWER SUPPLY:**

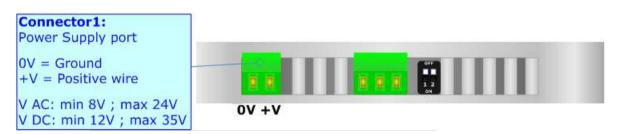
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

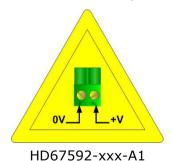
VAC	$\sim$	VDC	
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

# Consumption at 24V DC:

Device	Consumption [W/VA]
HD67592-232-A1	3.5
HD67592-485-A1	3.5

# Caution: Not reverse the polarity power





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### **FUNCTION MODES:**

The device has got two functions mode depending of the position of the 'Dip2 of Dip-Switch B':

- ▶ The first, with 'Dip2 of Dip-Switch B' at "OFF" position, is used for the normal working of the device.
- → The second, with 'Dip2 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.



A

### Warning:

Dip1 of 'Dip-Switch B' must be at ON position for working even if the Ethernet cable isn't inserted.

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# LEDS:

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

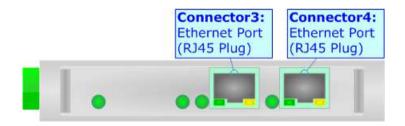
LED	Normal Mode	Boot Mode
1: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
2: Serial comm. (green)	Blink quickly when receive a Modbus request	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: Ethernet1 Transmition (green)	Blink quickly when the board sends a frame to the Ethernet line	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Ethernet2 Transmition (green)	Blink quickly when the board sends a frame to the Ethernet line	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



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# ETHERNET/IP:

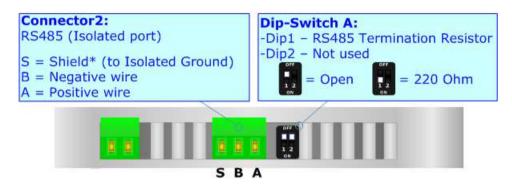
The Ethernet/IP connection must be made using Connector3 and/or Connector4 of HD67592-A1 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch 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.



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### RS485:

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

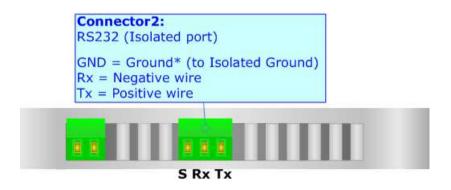


The maximum length of the cable should be 1200m (4000 feet).

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.

### RS232:



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### **USE OF COMPOSITOR SW67592:**

To configure the Converter, use the available software that runs with Windows, called SW67592. It is downloadable on the site <a href="https://www.adfweb.com">www.adfweb.com</a> 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 (MS 2000, XP, Vista, Seven, 8; 32/64bit).

When launching the SW67592 the right window appears (Fig. 2).

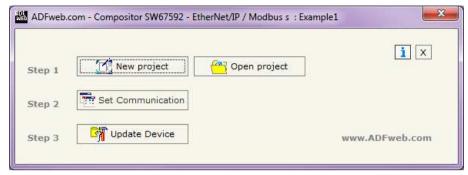
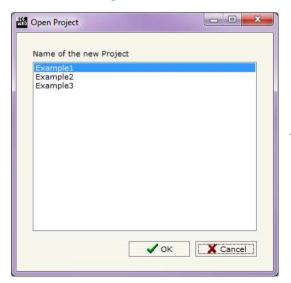
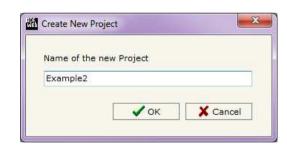


Figure 2: Main window for SW67592

### **NEW PROJECT / OPEN PROJECT:**

The "New Project" button creates the folder which contains the entire device configuration.





A device configuration can also be imported or exported:

- → To clone the configurations of a Programmable "Ethernet/IP / Modbus Master 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 Project".

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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 SW67591 (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" insert the IP address that you want to give to the Converter;
- ♣ In the fields "SubNet Mask" insert the SubNet Mask;
- → In the fields "Default Gateway" insert the default gateway that you want to use. This feature can be enabled of 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 50 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 500 byte).

The means of the fields for "Serial" are:

- → In the field "Serial" the serial to use is defined (RS232 or RS485);
- ♣ In the field "Baud Rate" the baudrate for the serial line is defined;
- ▶ In the field "Parity" the parity of the serial line is defined;
- ▶ In the field "Device ID" the address of the serial is defined;
- → In the field "Answer Delay (ms)" insert the time (expressed in milliseconds) that the Converter waits before sends the reply to the request;

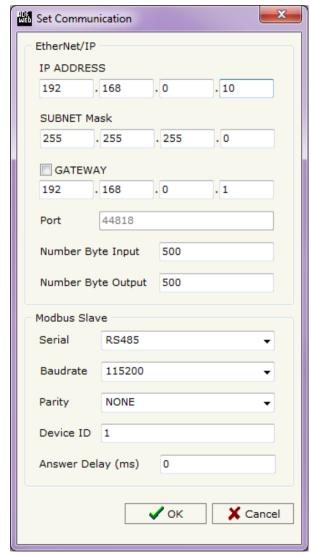


Figure 3: "Set Communication" window

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### **MODBUS:**

The Converter has a fixed map of the Modbus registers. This map start from address 1 and use a number of registers/status that depends from the Number Byte In and Number byte Out (defined in the "Set Communication" section).

For example, if you have 500 bytes the map starts from address 1 for 250 registers and start from address 1 for 4000 status.

The Modbus function supported are:

- **→ FUN 1** (Read Coil Status)
- FUN 2 (Read Input Status)
- **→ FUN 3** (Read Holding Register)
- FUN 4 (Read Input Register)
- **▶ FUN 5** (Force Single Coil)
- **→ FUN 6** (Preset Single Register)
- **→ FUN 15** (Force Multiple Coils)
- **→ FUN 16** (Preset Multiple Registers)

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### **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 Dip2 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 Dip2 of 'Dip-Switch B' at OFF position;
- Turn on the device.

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







Figure 6: "Update device" windows



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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.

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 HD67592-232-A1 or HD67592-485-A1device.

Note:

When you receive the device, for the first time, you have to update also the Firmware in the HD67592-232-A1 or HD67592-485-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 or Vista or 8, make sure that you have the administrator privileges;
- Take attention at Firewall lock;
- → Check the LAN settings.



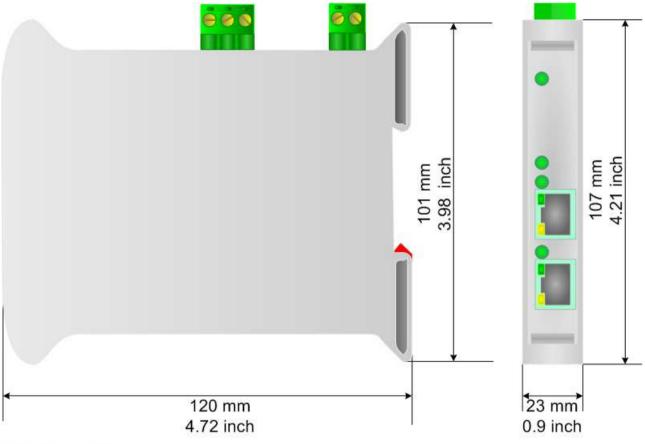
Figure 7: "Protection" window



In the case of HD67592-232-A1 or HD67592-485-A1 you have to use the software "SW67592": www.adfweb.com\download\filefold\SW67592.zip.

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### **MECHANICAL DIMENSIONS:**



Housing: PVC

Weight: 200g (Approx)

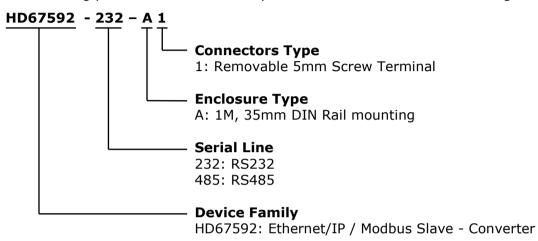
Figure 10: Mechanical dimensions scheme for HD67592-232-A1 and HD67592-485-A1



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### **ORDERING INFORMATIONS:**

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



Order Code: **HD670592-232-A1-** Converter Ethernet/IP / Modbus Slave Converter (RS232 serial)
Order Code: **HD670592-485-A1-** Converter Ethernet/IP / Modbus Slave Converter (RS485 serial)

### **ACCESSORIES:**

Order Code: **AC34001** - 35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V AC

Order Code: **AC34002** - 35mm Rail DIN - Power Supply 110V AC 50/60Hz - 12 V AC

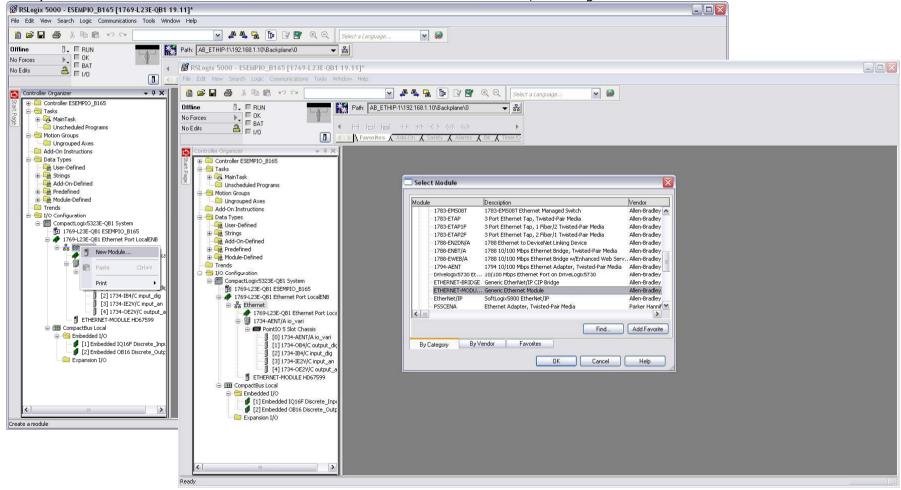
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### **PLC CONFIGURATION:**

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:

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

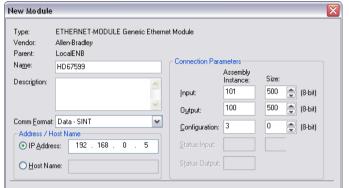




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ΩK

Cancel

2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67592" and the IP-address assigned is 192.168.0.5.

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

The HD67592-xxx-A1 can uses up to 500 bytes for input assembly instance 101 and 500 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.

Help



# Warning:

Open Module Properties

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





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4) After the configuration is completed, the controller tags are created. RSLogix 5000 - ESEMPIO B165 [1769-L23E-OB1 19.11]\* - [Controller Tags - ESEMPIO B165 (controller)] \_ B X File Edit View Search Logic Communications Tools Window Help 💌 🚜 🕰 📴 📝 🕎 🔍 🔾 Select a Language. v 🦻 Path: AB\_ETHIP-1\192.168.1.10\Backplane\0 📜 🗏 Run Mode Rem Run Controller OK No Forces ← H hal hal ++ ++ ← () ← (u) ← (u) No Edits □ I/O OK Favorites Add-On Safety Alarms Bit Timer/C Controller Organizer Scope: ☐ ESEMPIO\_B165 ✓ Show: All Tags v 7. Controller ESEMPIO B165 Force Mask Style Data Type Description Controller Tags HD67599:I.... {...} Decimal SINT[500] Controller Fault Handler Power-Up Handler + HD6759.. Decimal SINT Tasks H-HD6759... SINT Decimal + HD6759. SINT Decimal 🕀 🕞 MainProgram + HD6759 Decimal SINT Unscheduled Programs ± HD6759.. Decimal SINT Ungrouped Axes + HD6759. Decimal SINT Add-On Instructions + HD6759 SINT Decimal 🖨 🔠 Data Types + HD6759.. Decimal SINT 🙀 User-Defined ±-HD6759 Decimal SINT 🕳 🙀 Strings ±-HD6759.. Decimal SINT - 🧰 Add-On-Defined nedefined + HD6759. Decimal SINT Module-Defined ±-HD6759.. SINT Decimal Trends ±-HD6759.. Decimal SINT 🖮 😋 I/O Configuration H-HD6759 Decimal SINT ☐ ☐ CompactLogix5323E-QB1 System ±-HD6759.. Decimal 1769-L23E-QB1 ESEMPIO\_B165 H-HD6759 Decimal SINT Ethernet ±-HD6759.. SINT Decimal 1769-L23E-QB1 Ethernet Port Loca ±-HD6759.. SINT 1734-AENT/A io\_vari ±-HD6759 Decimal SINT PointIO 5 Slot Chassis ±-HD6759.. Decimal SINT [0] 1734-AENT/A io\_vari [1] 1734-OB4/C output did H-HD6759 Decimal SINT [2] 1734-IB4/C input\_dig +-HD6759.. SINT Decimal [3] 1734-IE2V/C input\_an ±-HD6759.. SINT Decimal [4] 1734-OE2V/C output\_a H-HD6759 SINT Decimal ■ ETHERNET-MODULE HD67599 +-HD6759.. Decimal SINT H-HD6759 Decimal SINT in the last included in the la [1] Embedded IQ16F Discrete\_Inpu [2] Embedded OB16 Discrete\_Outp +-HD6759... SINT Decimal ± HD6759.. Decimal SINT - 🚞 Expansion I/O THE LIDGES ST. Decimal SINT ±-HD6759.. SINT Decimal #-HD6759 Decimal SINIT ±-HD6759.. SINT Decimal ±-HD6759. Decimal SINT + HD6759. Decimal SINT ±-HD6759. Decimal H-HD6759 Decimal SINT ±-HD6759.. SINT Decimal + HD6759. Decimal SINT ±-HD6759.. Decimal SINT ±-HD6759.. Decimal SINT ±-HD6759 Decimal SINT ±-HD6759.. SINT Decimal ±-HD6759 Decimal SINIT +-HD6759.. SINT Decimal ±-HD6759.. Decimal SINT +-HD6759.. SINT Decimal ±-HD6759.. Decimal SINT Monitor Tags / Edit Tags /



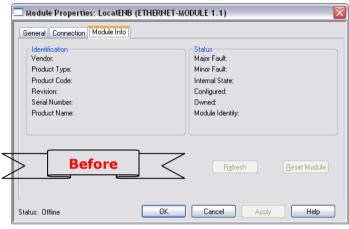
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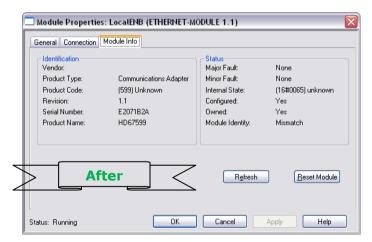
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RSLinx Classic Lite - [RSWho - 1] Representation of the Help Representation Representation Help Representation Repr 뀲 \$ 👨 ✓ Autobrowse Browsing - node 192.168.1.20 found - 🖳 Workstation, FEDERICO E Linx Gateways, Ethernet AB\_ETHIP-1, Ethernet 192.168.1.10 192.168.1.... 192.168.1.... 192.168.1.... ₱ 192,168,1,10, 1769-L23E-QB1 Ethernet Port, 1769-L23E-QB1 Ethernet Port 1769-L23E-... HD67595 HD67590 HD67599 - 7 192.168.1.122, Unrecognized Device, HD67595 192.168.1.123, Unrecognized Device, HD67590 192.168.1.189, HD67599, HD67599 192.168.1.20, 1734-AENT EtherNet, 192.168.1.20 1734-AENT.. Driver Diagnostics Configure Driver Upload EDS file from device Security... Device Properties 12/12/12 03:30 PM For Help, press F1 NUM

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.





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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 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 **RoHS** 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.

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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 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.

### PRODUCTS AND RELATED DOCUMENTS:

Part	Description	URL
HD67120	Converter Ethernet to RS232/RS485	www.adfweb.com?product=HD67120
HD67119	Converter USB 2.0 to RS485 Isolated	www.adfweb.com?product=HD67119
HD67507	Gateway Modbus TCP Server to RTU Master	www.adfweb.com?product=HD67507
HD67510	Gateway Modbus TCP Client to RTU Slave	www.adfweb.com?product=HD67510

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