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# **User Manual**

Revision 1.100 English

# EtherNet/IP / PROFIBUS Slave - Converter

(Order Code: HD67594-A1)

For Website information:

http://www.adfweb.com/?Product=HD67594

For Price information:

http://www.adfweb.com/?Price=HD67594-A1

### **Benefits and Main Features:**

★ Temperature range: -40°C/+85°C (-40°F/+185°F)

For others PROFIBUS devices, see also the following links:

#### PROFIBUS Slave from/to ...

www.adfweb.com?Product=HD67045 (Serial) www.adfweb.com?Product=HD67053 (M-Bus Master) www.adfweb.com?Product=HD67551 (CANopen) www.adfweb.com?Product=HD67552 (CAN) www.adfweb.com?Product=HD67553 (J1939)www.adfweb.com?Product=HD67554 (DeviceNet Slave) www.adfweb.com?Product=HD67555 (DeviceNet Master) www.adfweb.com?Product=HD67561 (Modbus Master) www.adfweb.com?Product=HD67562 (Modbus Slave) www.adfweb.com?Product=HD67563 (Ethernet Server) www.adfweb.com?Product=HD67564 (Modbus TCP Client) www.adfweb.com?Product=HD67565 (Modbus TCP Server)

#### PROFIBUS Master from/to ...

www.adfweb.com?Product=HD67577 www.adfweb.com?Product=HD67575 www.adfweb.com?Product=HD67577 (DeviceNet Slave) (Ethernet) (CAN)

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 <a href="www.adfweb.com/download/">www.adfweb.com/download/</a> 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	04/04/2013	Nt	All	Added new chapters
1.002	09/04/2013	Dp	All	Revision
1.100	28/07/2025	Mdb	All	New design

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

#### TRADEMARKS:

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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:



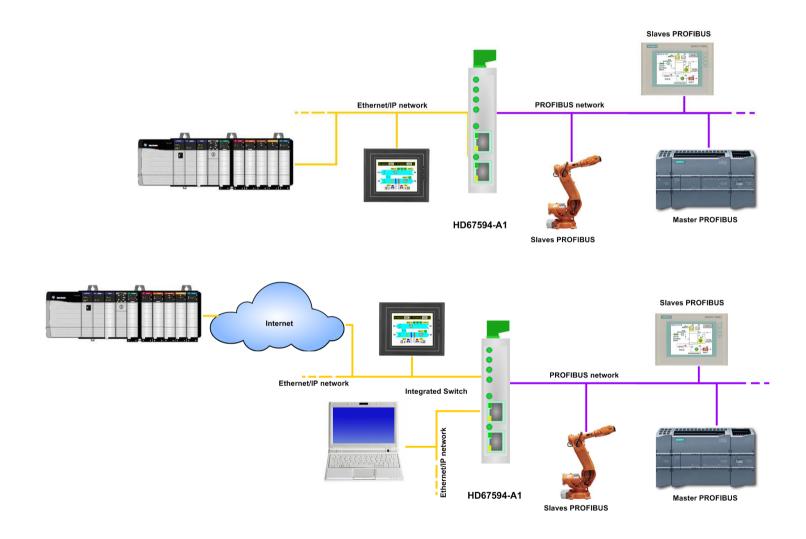
This symbol indicates that non-observance of the safety instructions is danger for people to serious injury or death and / or the possibility of damage.

#### **CE CONFORMITY**

The declaration is made by us. You can send an email to <a href="mailto:support@adfweb.com">support@adfweb.com</a> or give us a call if you need it.

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### **EXAMPLE OF CONNECTION:**



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### **CONNECTION SCHEME:**

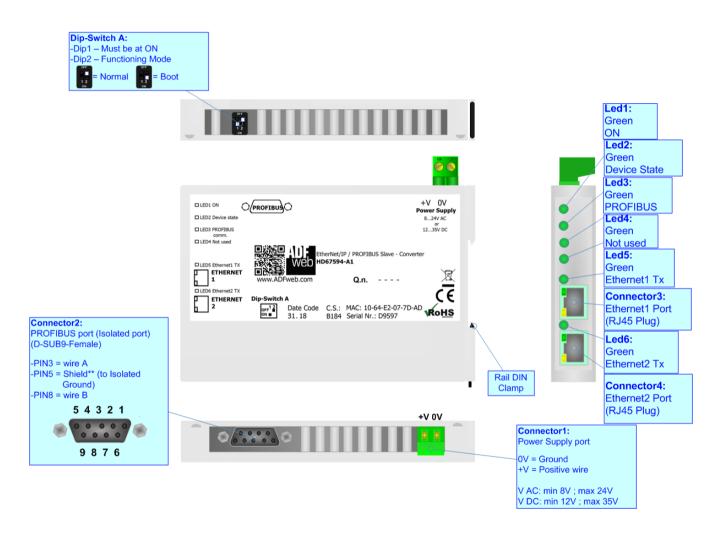


Figure 1: Connection scheme for HD67594-A1

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#### **CHARACTERISTICS:**

The configurable "Ethernet/IP / PROFIBUS Slave - Converter" allows the following characteristics:

- → Triple isolation between Ethernet/IP/PROFIBUS, Ethernet/IP /Power Supply, PROFIBUS/Power Supply.
- 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];
- → Up to 244 bytes from PROFIBUS (OUT) to Ethernet/IP;
- **→** Ethernet switch for enter/exit connection.

### **CONFIGURATION:**

You need Compositor SW67594 software on your PC in order to perform the following:

- Define the parameter of the PROFIBUS;
- Define the parameter of the Ethernet/IP 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.

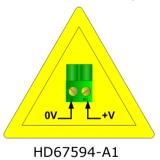
	VAC ~		VDC ===	
	Vmin	Vmax	Vmin	Vmax
HD67594-A1	<b>8V</b>	24V	12V	35V

## Consumption at 24V DC:

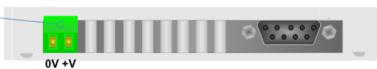
Device	W/VA
HD67594-A1	4



# **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 in Off position (factory setting), is used for the normal working of the device.
- → The second, with Dip2 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).



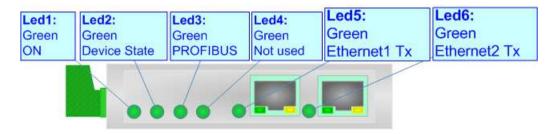
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### LEDS:

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: Powered OFF: Not powered	ON: Powered OFF: Not powered
2: Device State (green)	Blinks slowly (~1Hz)	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: PROFIBUS comm. (green)	Blink when the Master PROFIBUS communicate with the Converter	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Not Used (green)	Not Used	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet1 Tx (green)	Blink when port Ethernet1 send some frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
6: Ethernet2 Tx (green)	Blink when port Ethernet2 send some frames	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



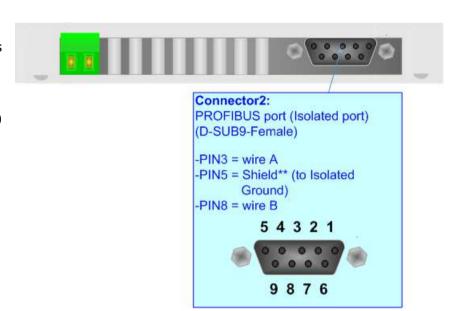
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### **PROFIBUS:**

The PROFIBUS uses a 9-pin D-SUB connector. The pin assignment is defined like in the right figure.

Here some codes of cables:

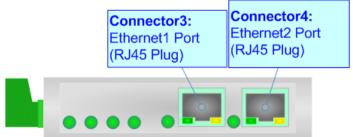
→ Belden: p/n 183079A - Continuous Armor DataBus® ISA/SP-50 PROFIBUS Cable.



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#### **ETHERNET:**

The Ethernet connection must be made using Connector3 or Connector4 of HD67594-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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### **USE OF COMPOSITOR SW67594:**

To configure the Converter, use the available software that runs with Windows, called SW67594. 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 (XP, Vista, Seven, 8, 10 or 11; 32/64bit).

When launching the SW67594 the right window appears (Fig. 2).



### Note:

It is necessary to have installed .Net Framework 4.

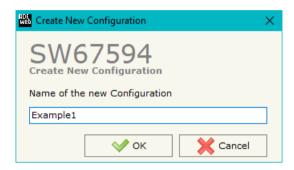


Figure 2: Main window for SW67594

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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 / PROFIBUS Slave 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".

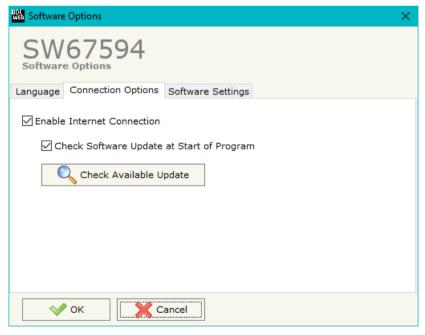


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#### **SOFTWARE OPTIONS:**

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.





In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website.

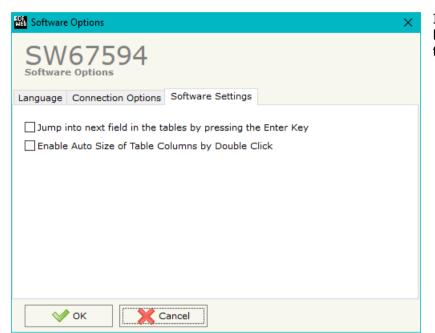
Checking the option "Check Software Update at Start of Program", the SW67594 check automatically if there are updatings when it is launched.

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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 defines the fundamental communication parameter of two buses, PROFIBUS and Ethernet/IP.

By pressing the "**Set Communication**" button from the main window for SW67594 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for the PROFIBUS and the other for the Ethernet/IP.

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 "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 244 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 244 byte).

The means of the fields for "PROFIBUS" are:

- ♣ In the field "ID Device" the address of the PROFIBUS side is defined;
- In the field "Baudrate" the baud rate for the PROFIBUS side is defined.

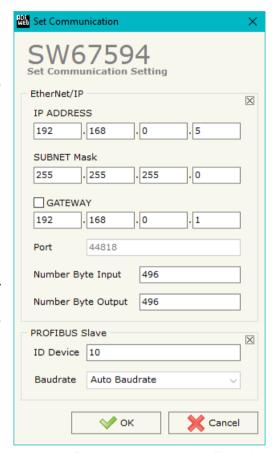


Figure 3: "Set Communication" window

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### **PROFIBUS GSD:**

By pressing the "**PROFIBUS GSD**" button it is possible to save the GSD file for the PROFIBUS side. With this feature you can save the configuration of the converter of the PROFIBUS side.



### Note:

When you import the .gsd file on your Master PROFIBUS you have to add all the modules that are present inside it.

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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 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.

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.

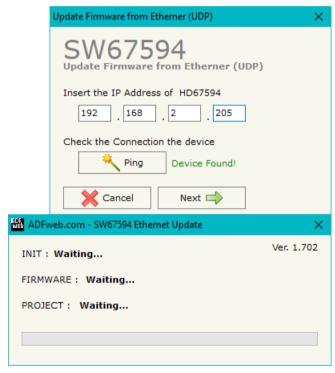


Figure 4: "Update device" windows

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



#### Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67594 device.

### Warning:

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.



Figure 5: "Error" window



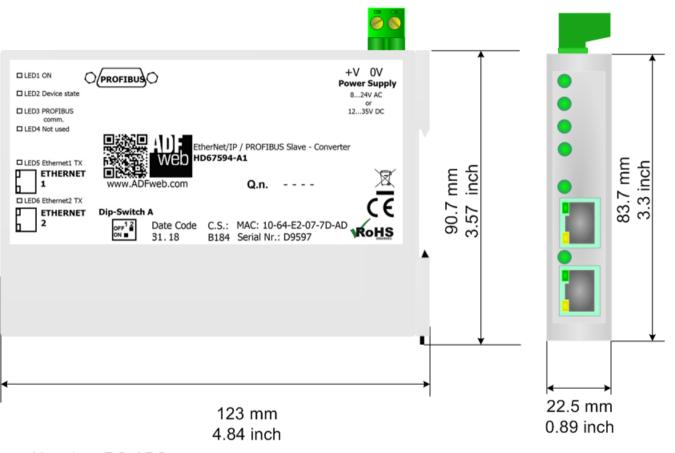
#### Warning:

In the case of HD67594 you have to use the software "SW67594": <a href="www.adfweb.com\download\filefold\SW67594.zip">www.adfweb.com\download\filefold\SW67594.zip</a>.

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### **MECHANICAL DIMENSIONS:**



Housing: PC-ABS Weight: 200g (Approx)

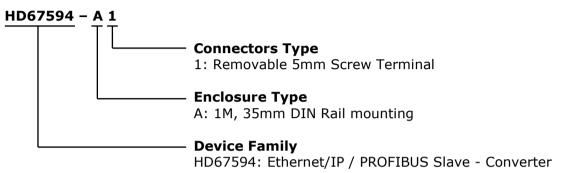
Figure 6: Mechanical dimensions scheme for HD67594-A1

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#### **ORDERING INFORMATIONS:**

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



Order Code: **HD67594-A1** - Ethernet/IP / PROFIBUS Slave - 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

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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:

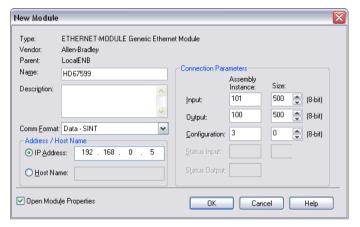
1) Create a "Generic Ethernet Module" under the Ethernet section in the I/O Configuration tree. RSLogix 5000 - ESEMPIO B165 [1769-L23E-QB1 19.11]\* File Edit View Search Logic Communications Tools Window Help v 🤪 V A A Pa Felect a Language Path: AB\_ETHIP-1\192.168.1.10\Backplane\0 Offline □ = RUN ► CK E BAT No Forces RSLogix 5000 - ESEMPIO B165 [1769-L23E-QB1 19.11] **3** □ 1/0 No Edits Controller Organizer 🔽 🚜 🧸 🖫 📴 🖫 € Select a Language. v 🤪 □ 

□ RUN Path: AB\_ETHIP-1\192.168.1.10\Backplane\0 Offline a Tasks ▶ □ OK ⊕ 🖳 MainTask No Forces III BAT ← H H H H +F +F +( )- +(U)- +(L)-Linscheduled Programs **♣** □ 1/0 No Edits Motion Groups Favorites Add-On A Safety Alarms Bit A Timer/C - Participated Axes Add-On Instructions Data Types Controller ESEMPIO\_B165 Liser-Defined - 🦳 Tasks Select Module Add-On-Defined Unscheduled Programs - 🛅 Motion Groups Ungrouped Axes Trends Add-On Instructions 1783-EM508T 1783-EMS08T Ethernet Managed Switch Allen-Bradley A - A I/O Configuration - 🛅 Data Types 1783-ETAP 3 Port Ethernet Tap, Twisted-Pair Media Allen-Bradley Ġ GompactLogix5323E-QB1 System User-Defined 1783-ETAP1F 3 Port Ethernet Tap, 1 Fiber/2 Twisted-Pair Media Allen-Bradley 17 1769-123F-OB1 ESEMPTO B165 + Strings 1783-ETAP2F 3 Port Ethernet Tap, 2 Fiber/1 Twisted-Pair Media Allen-Bradley ■ ★ 1769-L23E-QB1 Ethernet Port LocalENB Add-On-Defined 1788-EN2DN/A 1788 Ethernet to DeviceNet Linking Device Allen-Bradley + Predefined 1788-ENBT/A 1788 10/100 Mbps Ethernet Bridge, Twisted-Pair Media Allen-Bradley Module-Defined 1788-EWEB/A 1788 10/100 Mbps Ethernet Bridge w/Enhanced Web Serv.. Allen-Bradley Trends 1794-AENT 1794 10/100 Mbps Ethernet Adapter, Twisted-Pair Media Allen-Bradley (a) I/O Configuration - Drivelogix5730 Et... 10/100 Mbps Ethernet Port on DriveLogix5730 ☐ ☐ CompactLogix5323E-QB1 System - ETHERNET-BRIDGE Generic EtherNet (IP CIP Bridge Allen-Bradley Print 1769-L23E-QB1 ESEMPIO\_B165 ETHERNET-MODU... Generic Ethernet Module Allen-Bradley [2] 1734-IB4/C input\_dig ♣ 1769-L23E-OB1 Ethernet Port LocalENB SoftLogix5800 EtherNet/IP Allen-Bradley [3] 1734-IE2V/C input\_an Ethernet Parker Hannif [4] 1734-OE2V/C output\_a ♣ 1769-L23E-OB1 Ethernet Port Local < .... 1 ETHERNET-MODULE HD67599 1734-AENT/A io\_vari ☐ **111** CompactBus Local PointIO 5 Slot Chassis Find... Add Favorite embedded I/O [0] 1734-AFNT/A io vari [1] Embedded IQ16F Discrete\_Inpu [2] Embedded OB16 Discrete\_Outp By Category By Vendor Favorites [1] 1734-OB4/C output\_did [2] 1734-IB4/C input\_dig Expansion I/O [3] 1734-IE2V/C input\_an OK Cancel Help [4] 1734-OE2V/C output\_a - 🛮 ETHERNET-MODULE HD67599 CompactBus Local Emhedded I/O [1] Embedded IQ16F Discrete\_Inpu [2] Embedded OB16 Discrete\_Outp Create a module



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2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67594" and the IP-address assigned is 192.168.0.5.

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

The HD67594-A1 can uses up to 244 bytes for input assembly instance 101 and 244 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.

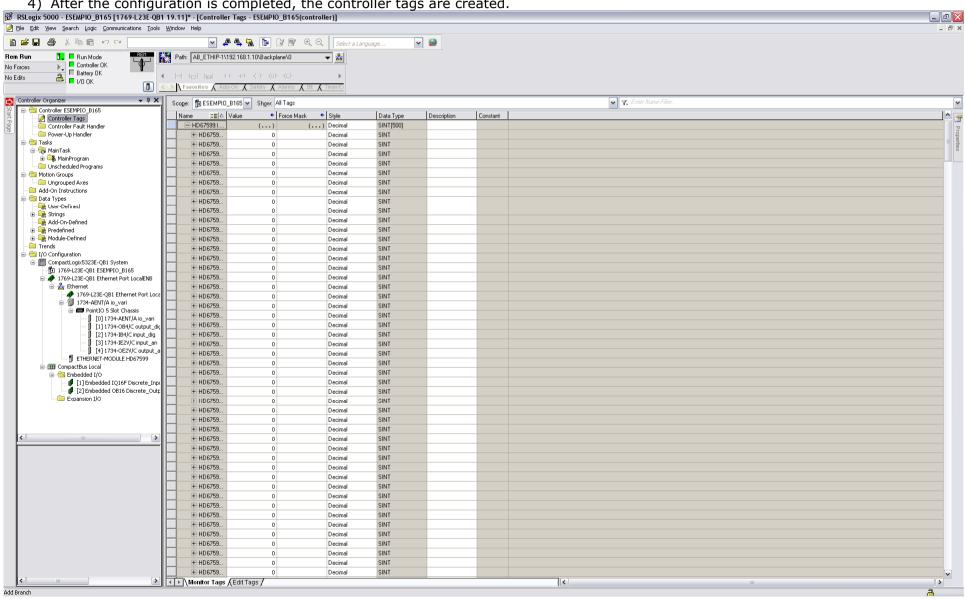




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4) After the configuration is completed, the controller tags are created.



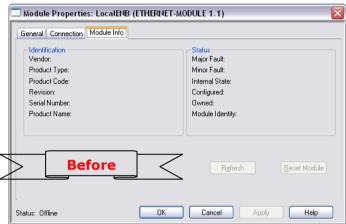


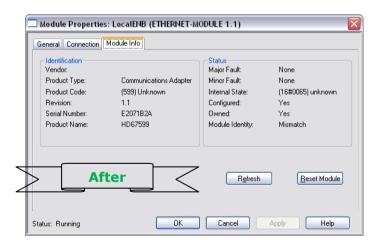
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RSLinx Classic Lite - [RSWho - 1] 옮 \$ 8 ✓ Autobrowse Browsing - node 192.168.1.20 found 🖃 🗐 Workstation, FEDERICO 🕀 器 Linx Gateways, Ethernet ☐ 👪 AB\_ETHIP-1, Ethernet 192.168.1.10 192.168.1... 192.168.1... 192.168.1.... 1769-L23E-... HD67595 HD67590 HD67599 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 For Help, press F1 12/12/12 03:30 PM

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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#### **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 <a href="www.adfweb.com">www.adfweb.com</a>. 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 <a href="https://www.adfweb.com">www.adfweb.com</a>. 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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