

# User Manual

Revision 1.001 English

# EtherNet/IP Slave / KNX - Converter

(Order Code: HD67807-KNX-B2)

for Website information:

www.adfweb.com?Product=HD67807

for Price information:

www.adfweb.com?Price=HD67807-KNX-B2

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

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



User Manual

### User Manual EtherNet/IP Slave / KNX

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For others KNX products, see also the following links:

#### Converter KNX to

www.adfweb.com?Product=HD67801
www.adfweb.com?Product=HD67802
www.adfweb.com?Product=HD67803
www.adfweb.com?Product=HD67804
www.adfweb.com?Product=HD67808
www.adfweb.com?Product=HD67809
www.adfweb.com?Product=HD67810
www.adfweb.com?Product=HD67811
www.adfweb.com?Product=HD67812
www.adfweb.com?Product=HD67813
www.adfweb.com?Product=HD67814
www.adfweb.com?Product=HD67815
www.adfweb.com?Product=HD67818
www.adfweb.com?Product=HD67818
www.adfweb.com?Product=HD67818
www.adfweb.com?Product=HD67820
www.adfweb.com?Product=HD67821

(BACnet Master)
(BACnet Slave)
(CAN)
(CANopen)
(DeviceNet Master)
(DeviceNet Slave)
(J1939)
(M-Bus Master/wM-Bus)
(Modbus Master)
(Modbus Slave)
(Modbus TCP Master)
(Modbus TCP Slave)
(PROFINET Slave)
(SNMP)
(DMX)

Do you have an your customer protocol? www.adfweb.com?Product=HD67004

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 <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
1.000	15/06/2015	Ff	All	First Release
1.001	26/02/2016	Nt	All	Revision

#### **WARNING:**

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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, 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:



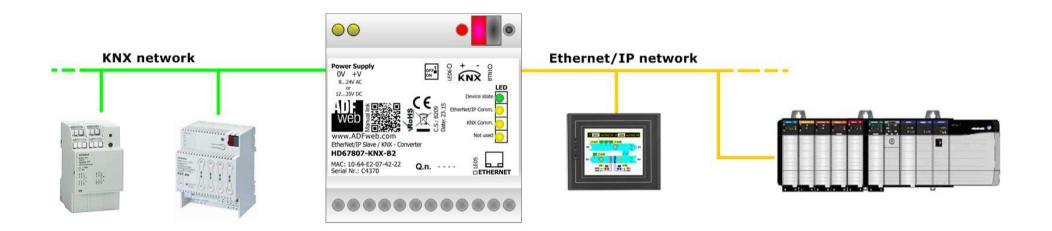
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

#### **CE CONFORMITY**

The declaration is made by our company. You can send an email to <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:**

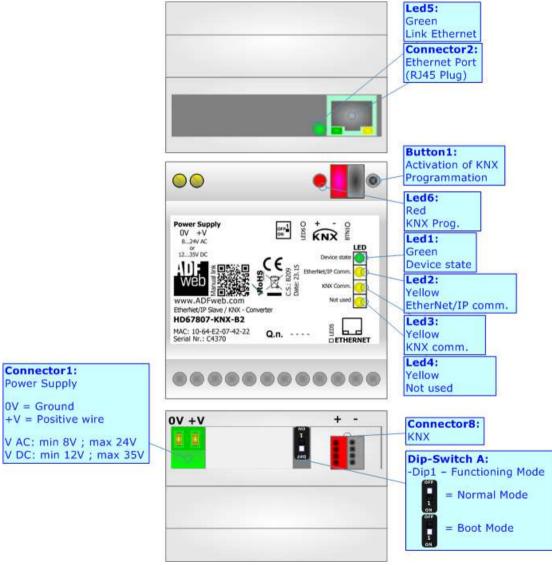


Figure 1: Connection scheme for HD67807-KNX-B2

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### **CHARACTERISTICS:**

The HD67807 is a EtherNet/IP / KNX Converter.

It has the following characteristics:

- → Up to 500 bytes in reading and 500 bytes in writing;
- → Triple isolation between KNX Power Supply, KNX Ethernet/IP, Power Supply Ethernet/IP.
- → Two-directional information between KNX 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 SW67807 software on your PC in order to perform the following:

- Define the parameter of Ethernet/IP line;
- Define the parameter of KNX line;
- Define the KNX messages that the Converter can accept;
- ▶ Define the KNX frames that the Converter sends trough the KNX line;
- Define the map of KNX byte that must be written in the EtherNet/IP side;
- ▶ Define the map of which Ethernet/IP data must be written in KNX messages;
- Update the device.

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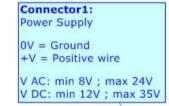
### **POWER SUPPLY:**

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]
HD67807-KNX-B2	3.5





**Caution: Not reverse the polarity power** 



HD67807-KNX-B2

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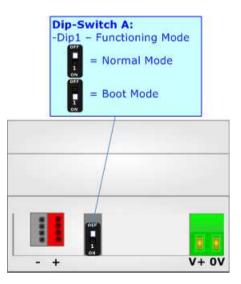
### **FUNCTION MODES:**

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

- ▶ The first, with 'Dip1 of Dip-Switch A' at "OFF" position, is used for the normal working of the device.
- → The second, with 'Dip1 of Dip-Switch A' 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.

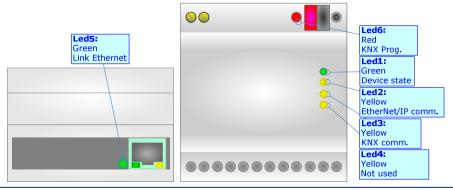


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### LEDS:

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: Device State (green)	Blinks slowly (~1Hz)	ON: Device powered OFF: Device not powered
2: Ethernet/IP communication (yellow)	Blinks when Ethernet/IP frame is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: KNX communication (yellow)	Blinks when KNX frame is received	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Ethernet/IP error (yellow)	ON: At least one Ethernet/IP request hasn't a correct response OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: Ethernet Link (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected
6: KNX Programmation (red)	ON: KNX Programmation activated OFF: KNX Programmation not activated	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress



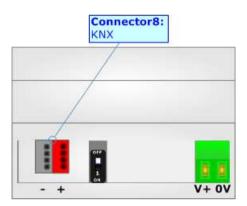
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### KNX:

KNX is the standard that allows the automated and decentralized management of the technologic plans of a big typology of structures: commercial buildings, factories, houses, public locals, schools and so on. KNX can be used in all the applications and functions for the building automations: from lighting to control dampers, to the security, to the heating monitoring, to the conditioning, to the hydric control and alarms, to energy management and so on.

Characteristics	Description TP1-256
Medium	Shielded Twisted Pair
Topology	Linear, Star, Tree or mixed
Baudrate	9600 bps
Device supplying	Normal: bus powered devices Optional: remote powered devices
Device power consumption	3 mA- 12 mA
Power Supply Unit (PSU)	DC 30 V
Number of PSU's per physical Segment	Max. 2
Number of connectable devices per physical Segment	Max. 256
Number of addressable devices per physical Segment	Max. 255
Total cable length per physical Segment	Max. 1000 m
Distance between two devices	Max. 700 m

(\*) Taken from KNX specifications

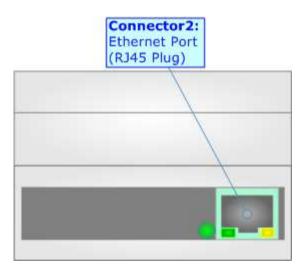


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# **ETHERNET (PROGRAMMING PORT):**

The Ethernet port is used for the EtherNet/IP communication and for programming the device.

The Ethernet connection must be made using Connector2 of HD67807-KNX-B2 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 is recommended the use of a cross cable.



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#### **USE OF COMPOSITOR SW67807:**

To configure the Converter, use the available software that runs with Windows called SW67807. 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; 32/64bit).

When launching the SW67807, the window below appears (Fig. 2).



#### Note:

It is necessary to have installed .Net Framework 4.



Figure 2: Main window for SW67807

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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 / KNX 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 SW67807 check automatically if there are updatings when it is launched.

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#### **SET COMMUNICATION:**

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

By Pressing the "Set Communication" button from the main window for SW67807 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The window is divided in two sections, one for KNX and one for EtherNet/IP.

The means of the fields for "KNX" are:

- ★ In the field "Type" the type of KNX is defined (fixd to 'KNX TP');
- In the field "ID Device" the ID of the KNX side of the converter is defined.

The means of the fields for the "EtherNet/IP" section are:

- ★ In the fields "IP ADDRESS" the IP address that you want to give to the Converter is defined;
- ★ In the fields "SUBNET Mask" the SubNet Mask is defined;
- ▼ In the fields "GATEWAY" the default gateway that you want to use is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;
- → In the field "Port" the port for the EtherNet/IP communication is defined (fixed to "44818");
- ▼ In the field "Number Byte IN" insert the number of input byte of the slave station;
- ➤ In the field "Number Byte Out" insert the number of output byte of the slave station.

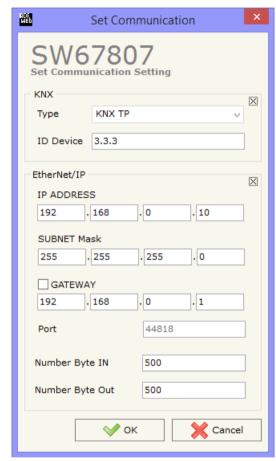


Figure 3: "Set Communication" window

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#### KNX ACCESS:

By pressing the "KNX Access" button from the main window for SW67807 (Fig. 2) the "KNX Set Access" window appears (Fig. 4).

The means of the fields are:

- → If the field "Enable" is checked, the KNX message is enabled;
- → In the field "Source Address" the Source Address to assign to the KNX message is defined;



Figure 4: "KNX Set Access" window

- → In the field "Dest/Group the Group address (2 level structure, 3 level structure or free address structure) or the device address is defined. In case of Group address, the levels must be separated by '/', in case of Device address, the parts of the address must be separated by '.';
- ★ In the field "APCI" the APCI of the KNX message is defined. You can choose between the following:
  - o Read: it is used to send a reading request to a KNX device;
  - o Write: it is used to send a writing request to a KNX device;
  - o Specific value (edited manually).
- → In the field "Priority" the Priority of the KNX message is defined. You can choose between the following:
  - System (Highest);
  - o Urgent;
  - Normal;
  - o Low (Lowest).
- → In the field "Format" the data format of the KNX message is defined;
- → If the field "Extended" is checked, the extended format of the KNX message is used;
- → If the field "OnCMD" is checked, the KNX request is sent when a EtherNet/IP message is received;
- → If the field "On Change" is checked, the gateway sends the KNX command when the data on EtherNet/IP change the value;
- ▶ If the field "On Timer" is checked, the gateway sends the KNX command cyclically;
- → In the field "Poll Time" the delay in ms between two KNX commands is defined (if "On Timer" is checked);
- → In the field "Position" insert the address of the internal array where placing the information;

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- ▼ In the field "Bit Mode" insert the start bit of the first byte of the field "Position" where start to insert the data read;
- → In the field "Lenght" the dimension of the KNX message is defined;
- ★ In the field "Mnemonic" the description for the request is defined.

### Note:

If the field "On change" is checked and the "Poll Time" is different from 0, the converter sends the KNX command cyclically and also when the data is changed.

### Note:

If the field "OnCMD", "OnChange" and "OnTimer" are not checked, the converter only sniffs the bus in order to monitor the status of the KNX message.

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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.

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";
- Press the "Ping" button, "Device Found!" must appear;
- 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 A' at OFF position;
- Turn on the device.

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







Figure 5: "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;
- 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, if it is the first time it is better you do the update of the Firmware in the HD67807 device.



### Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67807 device.

### Warning:

If Fig. 6 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;
- 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.



SW67606 Ethernet Update

Figure 6: "Protection" window

A

In the case of HD67807 you have to use the software "SW67807": <a href="www.adfweb.com\download\filefold\SW67807.zip">www.adfweb.com\download\filefold\SW67807.zip</a>.

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### **MECHANICAL DIMENSIONS:**

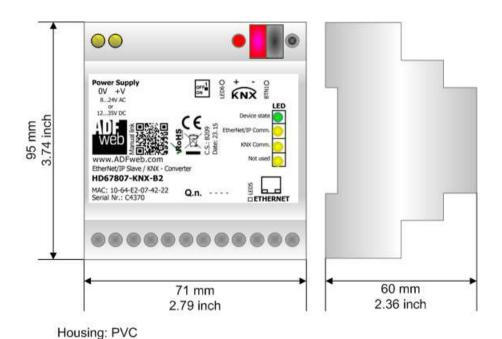


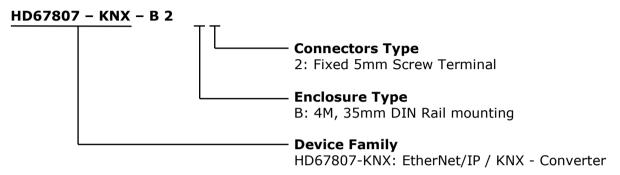
Figure 7: Mechanical dimensions scheme for HD67807-KNX-B2

Weight: 200g (Approx)

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### **ORDERING INFORMATIONS:**

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



Order Code: **HD67807-KNX-B2** - EtherNet/IP / KNX - Converter

### **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

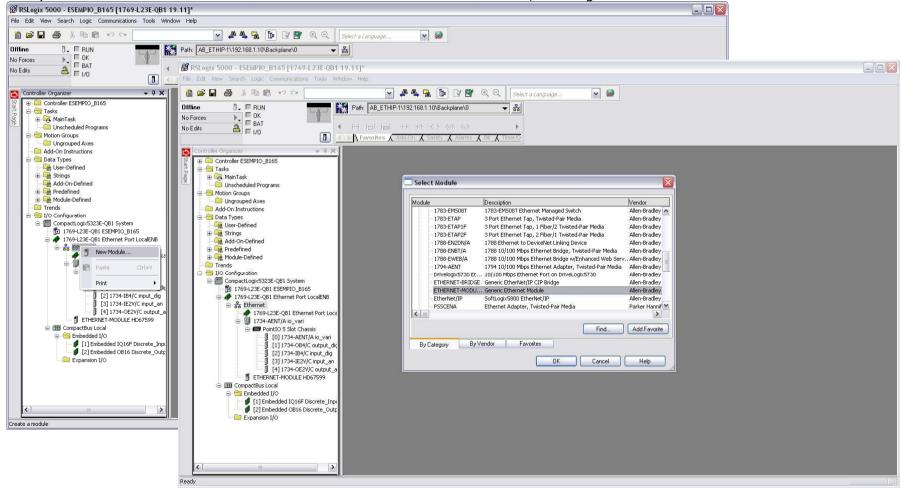
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### **PLC CONFIGURATION:**

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:

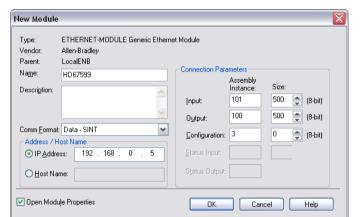
1) Create a "Generic Ethernet Module" under the Ethernet section in the I/O Configuration tree.





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2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67807" and the IP-address assigned is 192.168.0.5.

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

The HD67807-KNX-B2 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.



### Warning:

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





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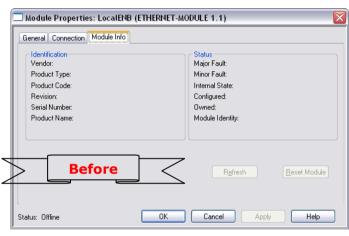
4) After the configuration is completed, the controller tags are created. RSLogix 5000 - ESEMPIO B165 [1769-L23E-OB1 19.11]\* - [Controller Tags - ESEMPIO B165 (controller)] \_ B X File Edit View Search Logic Communications Tools Window Help 💌 🚜 🕰 📴 📝 🕎 🔍 🔾 Select a Language. v 🤪 Path: AB\_ETHIP-1\192.168.1.10\Backplane\0 📜 🗏 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: 1 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.. Decimal 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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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.





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 Ė - 器 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 - ? 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

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### DISCLAIMER:

All technical content within this document can be modified without notice. The content of the document is a under continual renewal. For losses due to fire, earthquake, third party access or other accidents, or intentional or accidental abuse, misuse, or use under abnormal conditions repairs are charged to the user. ADFweb.com S.r.l. will not be liable for accidental loss of use or inability to use this product, such as loss of business income. ADFweb.com S.r.l. shall not be liable for consequences of improper use.

#### OTHER REGULATIONS AND STANDARDS:

#### **WEEE INFORMATION**

Disposal of old electrical and electronic equipment (as in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product may not be treated as household rubbish. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. If the product is disposed correctly, you will help prevent potential negative environmental factors and impact of human health, which could otherwise be caused by inappropriate disposal. The recycling of materials will help to conserve natural resources. For more information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

#### RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE



The device respects the 2002/95/EC Directive on the restriction of the use of certain hazardous substances in electrical **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.



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



ADFweb.com Srl - IT31010 - Mareno - Treviso

INFO: www.adfweb.com

Phone +39.0438.30.91.31