

Document code: MN67E77\_ENG Revision 1.000 Page 1 of 28



Revision 1.000 English

# **EtherCAT Master / EtherNet/IP Slave - Converter**

(Order Code: HD67E77-A1)

For Website information:

www.adfweb.com?Product=HD67E77

For Price information:

www.adfweb.com?Price=HD67E77-A1

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

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





For other EtherCAT Master products see also the following link:

#### **Converter EtherCAT Slave to**

www.adfweb.com?Product=HD67E50 www.adfweb.com?Product=HD67E51 www.adfweb.com?Product=HD67E52 www.adfweb.com?Product=HD67E53 www.adfweb.com?Product=HD67E54 www.adfweb.com?Product=HD67E55 www.adfweb.com?Product=HD67E56 www.adfweb.com?Product=HD67E57 www.adfweb.com?Product=HD67E58 www.adfweb.com?Product=HD67E59 www.adfweb.com?Product=HD67E60 www.adfweb.com?Product=HD67E61 www.adfweb.com?Product=HD67E62 www.adfweb.com?Product=HD67E64 www.adfweb.com?Product=HD67E65 www.adfweb.com?Product=HD67E66 www.adfweb.com?Product=HD67E67 www.adfweb.com?Product=HD67E68 www.adfweb.com?Product=HD67E69 www.adfweb.com?Product=HD67E70 www.adfweb.com?Product=HD67E71 www.adfweb.com?Product=HD67E72 www.adfweb.com?Product=HD67E73 www.adfweb.com?Product=HD67E74 www.adfweb.com?Product=HD67E75 www.adfweb.com?Product=HD67E76 www.adfweb.com?Product=HD67E78

(Serial) (Modbus Master) (Modbus Slave) (Modbus TCP Master) (Modbus TCP Slave) (BACnet Master) (BACnet Slave) (CAN) (CANopen) (DeviceNet Master) (DeviceNet Slave) (DMX) (Ethernet) (IEC61850 Client) (IEC61850 Server) (J1939) (MQTT) (NMEA0183) (NMEA2000) (OPC UA Client) (OPC UA Server) (PROFINET Master) (Modbus TCP Master) (SNMP Manager) (SNMP Agent) (EtherNet/IP Master) (S7comm Client)



User Manual



#### **INDEX:**

	Page
INDEX	2
UPDATED DOCUMENTATION	2
REVISION LIST	2
WARNING	2
TRADEMARKS	2
SECURITY ALERT	3
EXAMPLE OF CONNECTION	4
CONNECTION SCHEME	5
CHARACTERISTICS	6
CONFIGURATION	6
POWER SUPPLY	7
FUNCTION MODES	8
LEDS	9
ETHERCAT	10
ETHERNET	10
USE OF COMPOSITOR SW67E77	11
NEW CONFIGURATION / OPEN CONFIGURATION	12
SOFTWARE OPTIONS	13
SET COMMUNICATION	15
ETHERCAT SET ACCESS	16
UPDATE DEVICE	19
PLC CONFIGURATION	21
MECHANICAL DIMENSIONS	25
ORDERING INFORMATIONS	26
ACCESSORIES	26
DISCLAIMER	27
OTHER REGULATIONS AND STANDARDS	27
WARRANTIES AND TECHNICAL SUPPORT	28
RETURN POLICY	28

### User Manual EtherCAT Master / EtherNet/IP Slave

Document code: MN67E77\_ENG Revision 1.000 Page 2 of 28

#### **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	15/09/2021	Ff	All	First Release

#### **WARNING:**

ADFweb.com reserves the right to change information in this manual about our product without warning.

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

### **TRADEMARKS:**

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Document code: MN67E77\_ENG Revision 1.000 Page 3 of 28

#### **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:



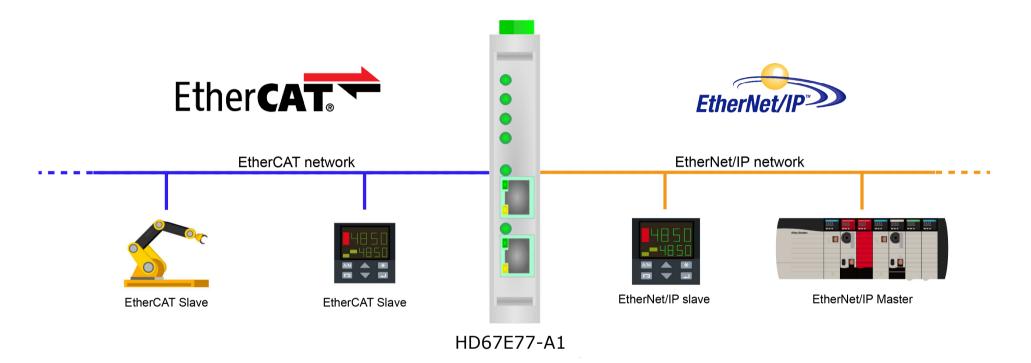
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

#### **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.

Document code: MN67E77\_ENG Revision 1.000 Page 4 of 28

### **EXAMPLE OF CONNECTION:**



Document code: MN67E77\_ENG Revision 1.000 Page 5 of 28

#### **CONNECTION SCHEME:**

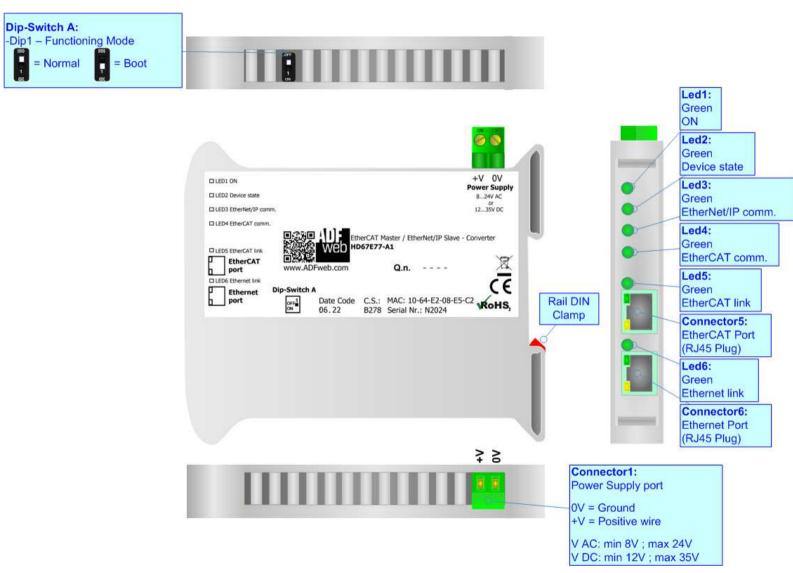


Figure 1: Connection scheme for HD67E77-A1

Document code: MN67E77\_ENG Revision 1.000 Page 6 of 28

#### **CHARACTERISTICS:**

The HD67E77-A1 are EtherCAT Master / EtherNet/IP Slave - Converters.

It allows for the following characteristics:

- → Isolation between EtherCAT EtherNet/IP Power Supply;
- → Two-directional information between EtherCAT 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 SW67E03 software on your PC in order to perform the following:

- Define the parameters of EtherCAT line;
- Define the parameters of EtherNet/IP line;
- Define EtherCAT slaves from which reading/writing the data;
- Update the device.

Document code: MN67E77\_ENG Revision 1.000 Page 7 of 28

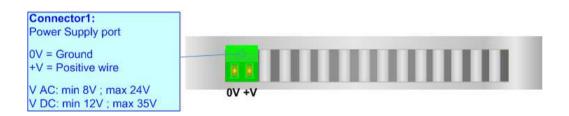
### **POWER SUPPLY:**

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

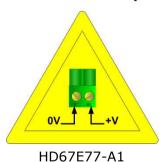
VAC	$\sim$	VDC	===
Vmin	Vmax	Vmin	Vmax
8V	24V	12V	35V

### Consumption at 24V DC:

Device	Consumption [W/VA]					
HD67E77-A1	3.5					



# Caution: Do not reverse the polarity power



Document code: MN67E77 ENG Revision 1.000 Page 8 of 28

#### **FUNCTION MODES:**

The device has got two function modes depending on 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 uploading 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 specific functions, see 'LEDS' section.

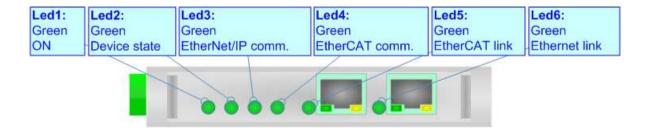


Document code: MN67E77\_ENG Revision 1.000 Page 9 of 28

### LEDS:

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

LED	Normal Mode	Boot Mode
1: ON [supply voltage]	ON: Device powered	ON: Device powered
(green)	OFF: Device not powered	OFF: Device not powered
(green)  OFF: Device not powered  2: Device State (green)  Blinks slowly (~1Hz)  Blinks quickly: Book Blinks very slowly  3: EtherNet/IP comm. (green)  It blinks when EtherNet/IP communication is running  Blinks quickly: Book Blinks very slowly  Blinks quickly: Book Blinks very slowly  The blinks when EtherCAT communication is running  Blinks quickly: Book Blinks very slowly  ON: EtherCAT cable connected  ON: EtherCAT cable	Blinks quickly: Boot state	
2. Device State (green)	Billiks Slowly (**1112)	Blinks very slowly (~0.5Hz): update in progress
3: EtherNet/IP comm.	It blinks when EtherNot/ID communication is running	Blinks quickly: Boot state
(green)	It blinks when Ethernet/17 communication is fulfilling	Blinks very slowly (~0.5Hz): update in progress
(green)  OFF: Device not powered  2: Device State (green)  Blinks slowly (~1Hz)  3: EtherNet/IP comm. (green)  It blinks when EtherNet/IP communication is running  4: EtherCAT comm. (green)  It blinks when EtherCAT communication is running  ON: EtherCAT cable connected  OFF: EtherCAT cable disconnected  ON: Ethernet cable connected  ON: Ethernet cable connected	Blinks quickly: Boot state	
4. EtherCAT comm. (green)	It blinks when EtherCAT communication is fullling	Blinks very slowly (~0.5Hz): update in progress
5 511 047 11 1 (	ON: EtherCAT cable connected	ON: EtherCAT cable connected
3: EtherNet/IP comm. (green)  It blinks when EtherNet/IP communication  4: EtherCAT comm. (green)  It blinks when EtherCAT communication is  ON: EtherCAT cable connected  OFF: EtherCAT cable disconnected  ON: Ethernet cable connected		<b>OFF:</b> EtherCAT cable disconnected
6. Ethernet link (green)	ON: Device powered OFF: Device not powered  Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress  Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress  Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress  Domm. (green)  It blinks when EtherCAT communication is running Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress  ON: EtherCAT cable connected OFF: EtherCAT cable disconnected OFF: EtherCAT cable disconnected ON: Ethernet cable connected ON: Ethernet cable connected ON: Ethernet cable connected	
6. Ethernet link (green)	<b>OFF:</b> Ethernet cable disconnected	<b>OFF:</b> Ethernet cable disconnected

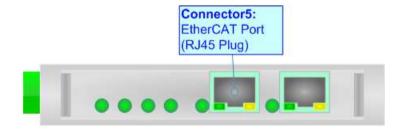


Document code: MN67E77 ENG Revision 1.000 Page 10 of 28

#### **ETHERCAT**

**EtherCAT** (Ethernet for Control Automation Technology) is an Ethernet-based fieldbus system, invented by Beckhoff Automation. The protocol is standardized in IEC 61158 and is suitable for both hard and soft real-time computing requirements in automation technology. With EtherCAT, the standard Ethernet packet or frame (according to IEEE 802.3) is no longer received, interpreted, and copied as process data at every node. The EtherCAT slave devices read the data addressed to them while the telegram passes through the device, processing data "on the fly". In other words, real-time data and messages are prioritized over more general, less time-sensitive or heavy load data.

EtherCAT connection must be made using Connector5 of the HD67E77-A1.



#### **ETHERNET:**

EtherNet/IP connection and the updating of the converter must be made using Connector6 of the HD67E77-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.



Document code: MN67E77\_ENG Revision 1.000 Page 11 of 28

#### **USE OF COMPOSITOR SW67E77:**

To configure the Converter, use the available software that runs with Windows called SW67E77. 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; 32/64bit).

When launching the SW67E77, the window below appears (Fig. 2).



### Note:

It is necessary to have installed .Net Framework 4.

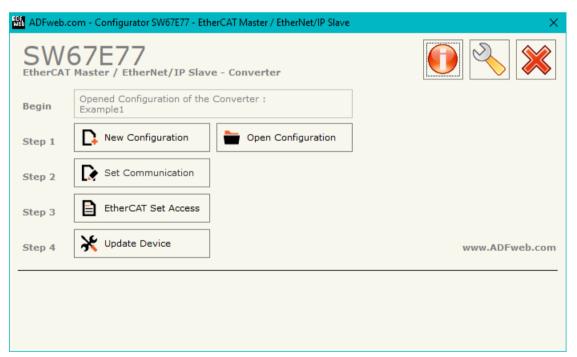


Figure 2: Main window for SW67E77

Document code: MN67E77\_ENG Revision 1.000 Page 12 of 28

### **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 "EtherCAT Master / EtherNet/IP 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".

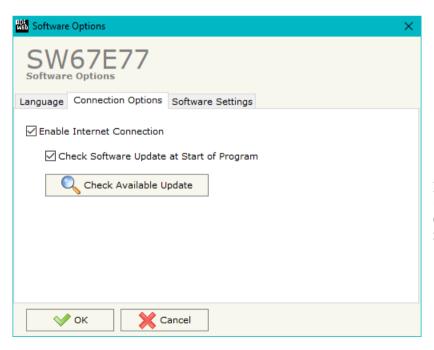


Document code: MN67E77\_ENG Revision 1.000 Page 13 of 28

#### **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 SW67E77 checks automatically if there are updatings when it is launched.



Document code: MN67E77 ENG Revision 1.000 Page 14 of 28



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.

Document code: MN67E77 ENG Revision 1.000 Page 15 of 28

#### **SET COMMUNICATION:**

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

By Pressing the "Set Communication" button from the main window for SW67E77 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "Ethernet Connection" are:

- → In the field "Device Name (Hostname)" the Hostname to assign to the converter is defined;
- → If the field "Obtain an IP Address Automatically (DHCP for Cable Connection)"
  is checked, DHCP for LAN connection is enabled;
- → If the field "Enable DNS" is checked, DNS protocol is enabled;
- ▶ In the field "Primary DNS" the IP Address of the primary DNS server is defined;
- → In the field "Secondary DNS" the IP Address of the secondary DNS server is defined.

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

- → In the fields "IP ADDRESS" the IP address of EtherNet/IP side of the converter is defined;
- → In the fields "SUBNET Mask" the SubNet Mask of EtherNet/IP side of the converter is defined;
- → In the fields "GATEWAY" the default gateway of the network 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 used for EtherNet/IP communication is defined;
- → In the field "Number Bytes Input" the number of input bytes of the converter is defined;
- → In the field "Number Bytes Output" the number of output bytes of the converter is defined.

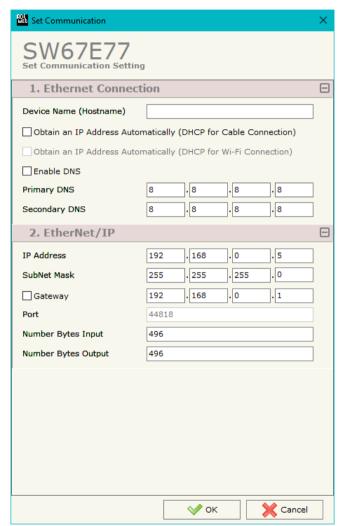


Figure 3: "Set Communication" window

Document code: MN67E77\_ENG Revision 1.000 Page 16 of 28

#### **ETHERCAT SET ACCESS:**

By Pressing the "EtherCAT Set Access" button from the main window for SW67E77 (Fig. 2) the window "EtherCAT Master Access" appears (Fig. 4). This section is used to define the list of the EtherCAT slave devices to connect and the parameters to read/write.

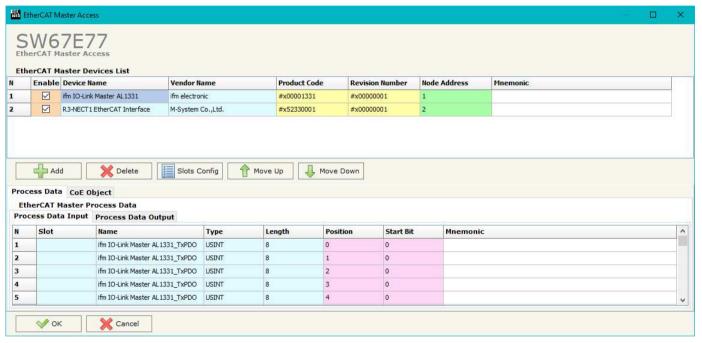


Figure 4a: "EtherCAT Master Access" window

Below the "EtherCAT Master Devices List", the list of the EtherCAT devices to connect is defined. It is possible to import the slaves using the standard ESI file provided by the manufacturer of the device. For each node, it is necessary to indicate the "Node Address" into the related column. If a slave device has more device instances, it is possible to select them using "Slots Config" button.

<u>Note:</u>

The EtherCAT devices must be listed with the correct order, respecting the order of the physical connection to have a correct communication.

Document code: MN67E77\_ENG Revision 1.000 Page 17 of 28

For each EtherCAT slave device, it is possible to define the map from/to the other bus for Process Data and for CoE objects. The list of accessible objects is imported directly from ESI file.

#### **PROCESS DATA**

	ess Data CoE O						
	erCAT Master Pi						
Proc	ess Data Input	<b>Process Data Output</b>					
N	Slot	Name	Туре	Length	Position	Start Bit	Mnemonic
1		ifm IO-Link Master AL1331_TxPDO	USINT	8	0	0	
2		ifm IO-Link Master AL1331_TxPDO	USINT	8	1	0	
3		ifm IO-Link Master AL1331_TxPDO	USINT	8	2	0	
4		ifm IO-Link Master AL1331_TxPDO	USINT	8	3	0	
5		ifm IO-Link Master AL1331_TxPDO	USINT	8	4	0	

Figure 4b: "Process Data" table

#### The means of the fields are:

- ♣ In the field "Slot" the selected Slot is defined;
- In the field "Name" the name of the variable is defined;
- → In the field "Lenght" the dimension in bit of the variable is defined;
- ▶ In the field "Position" the starting address of the EtherNet/IP array where the variable is mapped is defined;
- ▼ In the field "Start Bit" the starting bit of the selected Position where the variable is mapped is defined;
- ▶ In the field "Mnemonic" a description of the variable is defined.

Document code: MN67E77\_ENG Revision 1.000 Page 18 of 28

#### **COE OBJECT**

Proce	ess Data	CoE Obje	ct														
Eth	EtherCAT Master CoE Objects List																
N	Enable	Index	SubIndex	Name	Bit Length	Access	Pos Read	Start Bit R	Time Read	Pos Write	Start Bit W	On Change	On CMD	On Timer	Time	Mnemonic	^
1		#x1000	0	Device Type	32	го											
2		#x1008	0	Manufacturer Device Name	112	ro											
3		#x1009	0	Manufacturer Hardware	200	ro											
4		#x100a	0	Manufacturer Software	256	ro											1
5		#x1018	0	Number of entries	8	ro											1
6		#x1018	1	Vendor Id	32	ro											-

Figure 4c: "CoE Object" table

#### The means of the fields are:

- → If the field "Enable" is checked, the EtherCAT variable is enabled;
- → In the field "Index" the index of the EtherCAT variable is defined;
- In the field "SubIndex" the SubIndex of the EtherCAT variable is defined;
- ♣ In the field "Name" the name of the EtherCAT variable is defined;
- → In the field "Bit Lenght" the dimension of the EtherCAT variable is defined;
- ▶ In the field "Access" the allowed access to the EtherCAT variable is defined;
- ▶ In the field "Pos Read" the starting address of the EtherNet/IP array where the read value of the variable is mapped is defined;
- → In the field "Start Bit R" the starting bit of the selected Position where the variable is mapped is defined;
- ▶ In the field "Time Read" the cyclical time in ms for the data reading is defined;
- ▶ In the field "Pos Write" the starting address of the EtherNet/IP array where the value to write to the variable is taken is defined;
- ▶ In the field "Start Bit R" the starting bit of the selected Position where the value to write is taken is defined;
- If the field "On Change" is checked, the writing command is sent only when the data from EtherNet/IP is changed;
- ▶ If the field "On CMD" is checked, the writing command is sent when an explicit message from EtherNet/IP is received;
- → If the field "On Timer" is checked, the writing command is sent cyclically with the "Time" defined;
- ▶ In the field "Mnemonic" a description of the variable is defined.

Document code: MN67E77 ENG Revision 1.000 Page 19 of 28

#### **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;
- 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.



Figure 5: "Update device" windows



Document code: MN67E77 ENG Revision 1.000 Page 20 of 28



When you receive the device, for the first time, you also have to update the Firmware in the HD67E77 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;
- Check the LAN settings;
- Operating System;
- 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 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.



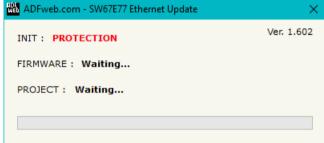


Figure 6: "Error" window



#### Warning:

In the case of HD67E77 you have to use the software "HD67E77": www.adfweb.com\download\filefold\SW67E77.zip.

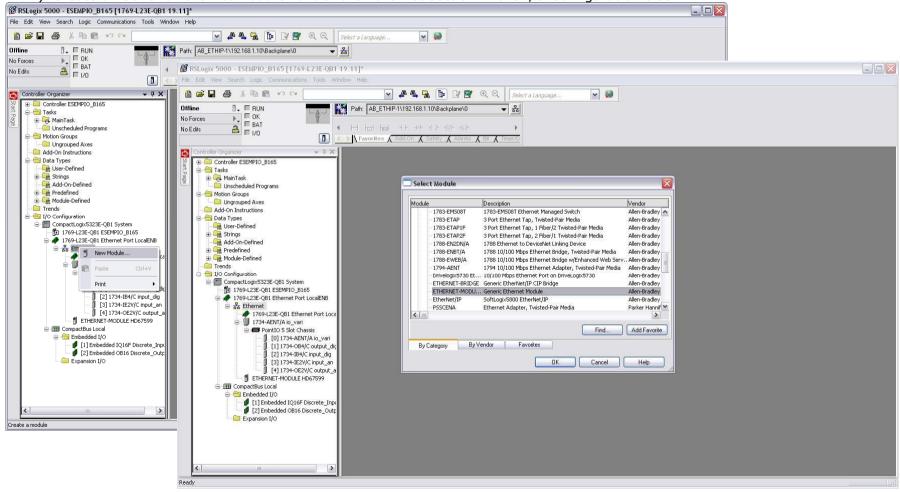
Document code: MN67E77 ENG Revision 1.000 Page 21 of 28

#### **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.

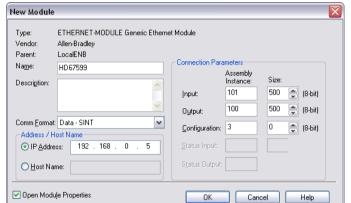




#### Industrial Electronic Devices

### User Manual EtherCAT Master / EtherNet/IP Slave

Document code: MN67E77\_ENG Revision 1.000 Page 22 of 28



2) Edit the settings of the new Generic Ethernet Module. As shown in the screen shot below, the module was named "HD67E77" and the IP-address assigned is 192.168.0.5.

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

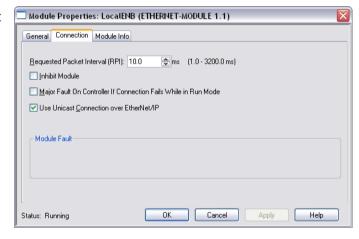
RSLogix 5000 requires a configuration assembly instance. Both modules do not provide a configuration assembly instance. Therefore it is allowed to select an instance of 3 and to set the value to zero.

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.



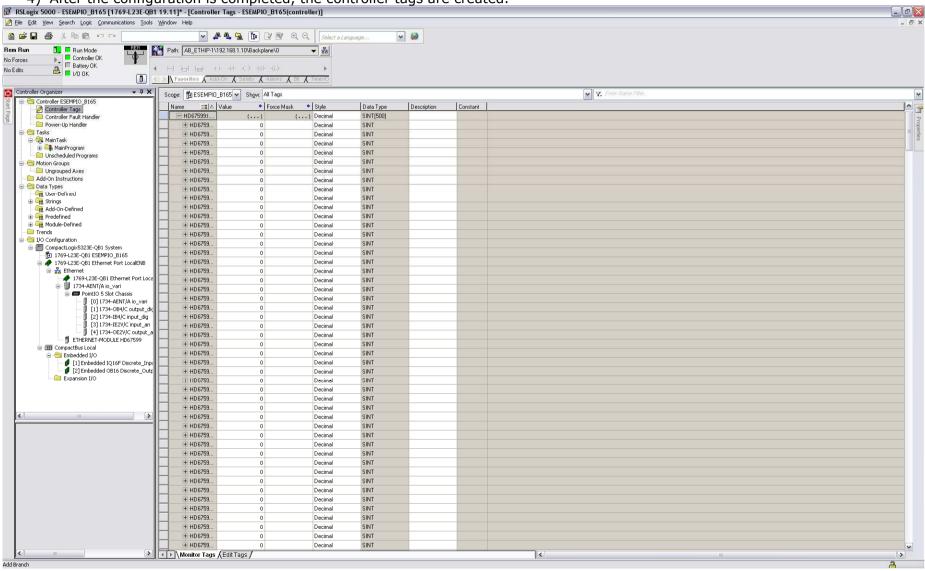


#### Industrial Electronic Devices

### User Manual EtherCAT Master / EtherNet/IP Slave

Document code: MN67E77 ENG Revision 1.000 Page 23 of 28

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





#### Industrial Electronic Devices

### User Manual EtherCAT Master / EtherNet/IP Slave

Document code: MN67E77\_ENG Revision 1.000 Page 24 of 28

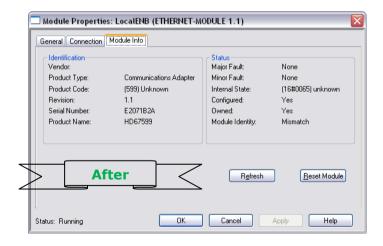
RSLinx Classic Lite - [RSWho - 1] 뀲 \$ 👨 ✓ Autobrowse Browsing - node 192.168.1.20 found - 🖳 Workstation, FEDERICO E Linx Gateways, Ethernet □ 🔓 AB\_ETHIP-1, Ethernet 192.168.1.10 192.168.1.... 192.168.1.... 192.168.1.... ₱ 192,168,1,10, 1769-L23E-QB1 Ethernet Port, 1769-L23E-QB1 Ethernet Port 1769-L23E-... HD67595 HD67590 HD67599 - ? 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

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.

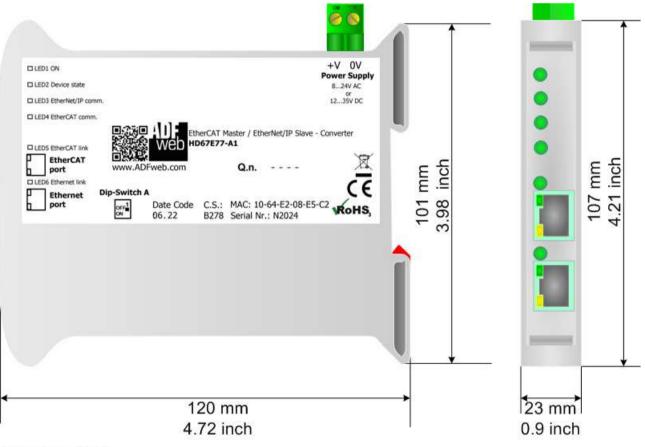




For Help, press F1



#### **MECHANICAL DIMENSIONS:**



Housing: PVC

Weight: 200g (Approx)

Figure 7: Mechanical dimensions scheme for HD67E77-A1

Document code: MN67E77\_ENG Revision 1.000 Page 26 of 28

### **ORDERING INFORMATIONS:**

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



Order Code: **HD67E77-A1** - EtherCAT Master / EtherNet/IP 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

Document code: MN67E77 ENG Revision 1.000 Page 27 of 28

#### 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.

Document code: MN67E77\_ENG Revision 1.000 Page 28 of 28

#### **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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