

Document code: MN67879 ENG Revision 1.000 Page 1 of 44

### User Manual

Revision 1.000 English

# IO-Link Master / EtherCAT Slave - Converter

(Order Code: HD67879-A1-XX)

for Website information:

www.adfweb.com/?Product=HD67879

for Price information:

www.adfweb.com/?Price=HD67879-A1-2A

www.adfweb.com/?Price=HD67879-A1-4A

www.adfweb.com/?Price=HD67879-A1-2A-2B

www.adfweb.com/?Price=HD67879-A1-2B

www.adfweb.com/?Price=HD67879-A1-4B

www.adfweb.com/?Price=HD67879-A1-4A-4B

www.adfweb.com/?Price=HD67879-A1-8A

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

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



**User Manual** 

For others IO-Link devices, see also the following links:

#### IO-Link from/to ...

www.adfweb.com?Product=HD67860 www.adfweb.com?Product=HD67861 www.adfweb.com?Product=HD67862 www.adfweb.com?Product=HD67864 www.adfweb.com?Product=HD67864 www.adfweb.com?Product=HD67865 www.adfweb.com?Product=HD67866 www.adfweb.com?Product=HD67867 www.adfweb.com?Product=HD67868 www.adfweb.com?Product=HD67869 www.adfweb.com?Product=HD67870 www.adfweb.com?Product=HD67871 www.adfweb.com?Product=HD67872 www.adfweb.com?Product=HD67873 www.adfweb.com?Product=HD67874 www.adfweb.com?Product=HD67875 www.adfweb.com?Product=HD67876 www.adfweb.com?Product=HD67877 www.adfweb.com?Product=HD67878

(Modbus Master) (Modbus Slave) (Modbus TCP Master) (Modbus TCP Slave) (BACnet Master) (BACnet Slave) (CAN) (CANopen) (DeviceNet Master) (DeviceNet Slave) (EtherNet/IP Master) (EtherNet/IP Slave) (J1939) (MQTT) (NMEA0183) (NMEA2000) (PROFINET Slave) (SNMP Manager) (SNMP Agent)

Do you have an your customer protocol?

See the following links:

www.adfweb.com?Product=HD67879

Do you need to choose a device? do you want help?

Ask it to the following link: <a href="https://www.adfweb.com?Cmd=helpme">www.adfweb.com?Cmd=helpme</a>



Document code: MN67879 ENG Revision 1.000 Page 2 of 44

#### **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	12
CONFIGURATION	12
POWER SUPPLY	13
FUNCTION MODES	14
LEDS	15
IO-LINK	16
AUX POWER SUPPLY	17
ETHERCAT	18
ETHERNET	19
USE OF COMPOSITOR SW67879	20
NEW PROJECT / OPEN PROJECT	21
SOFTWARE OPTIONS	22
SET COMMUNICATION	24
IO-LINK SET ACCESS	26
ETHERCAT SET ACCESS	35
ESI FILE	37
UPDATE DEVICE	38
MECHANICAL DIMENSIONS	40
ORDERING INFORMATIONS	41
ACCESSORIES	42
DISCLAIMER	43
OTHER REGULATIONS AND STANDARDS	43
WARRANTIES AND TECHNICAL SUPPORT	44
RETURN POLICY	44

#### **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	14/03/2022	Ff	All	First release version

#### **WARNING:**

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

#### **TRADEMARKS:**

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Document code: MN67879 ENG Revision 1.000 Page 3 of 44

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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:



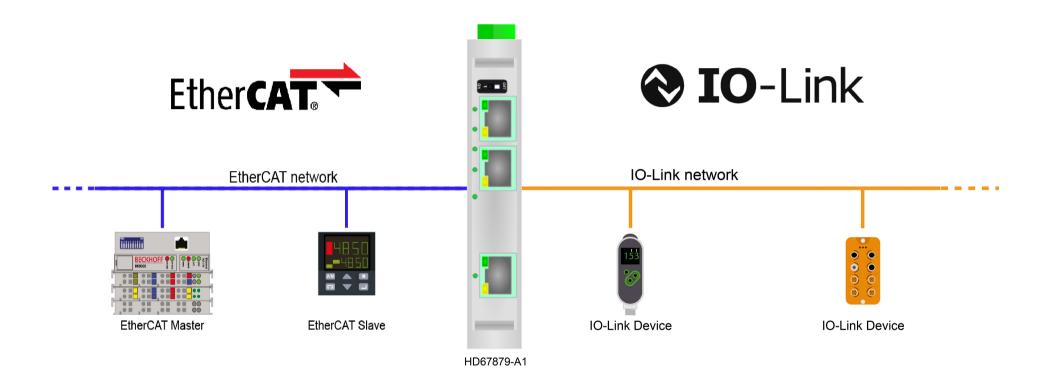
This symbol indicates that non-observance of the safety instructions is a danger for people that could lead to serious injury or death and / or the possibility of damage.

#### **CE CONFORMITY**

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

Document code: MN67879 ENG Revision 1.000 Page 4 of 44

#### **EXAMPLE OF CONNECTION:**



Document code: MN67879\_ENG Revision 1.000 Page 5 of 44

#### **CONNECTION SCHEME:**

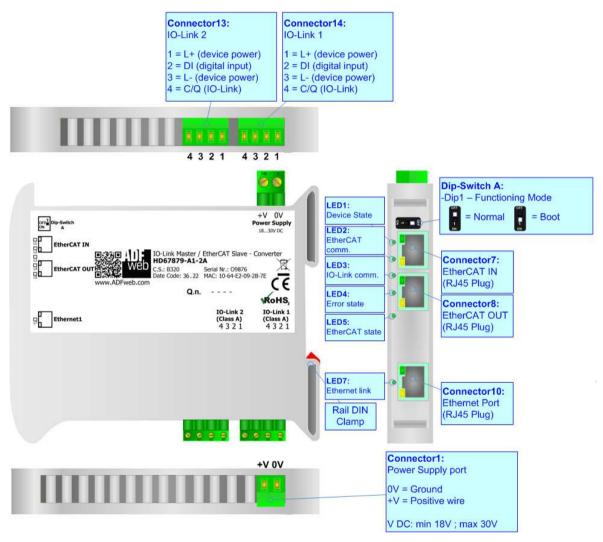


Figure 1a: Connection scheme for HD67879-A1-2A

Document code: MN67879 ENG Revision 1.000 Page 6 of 44

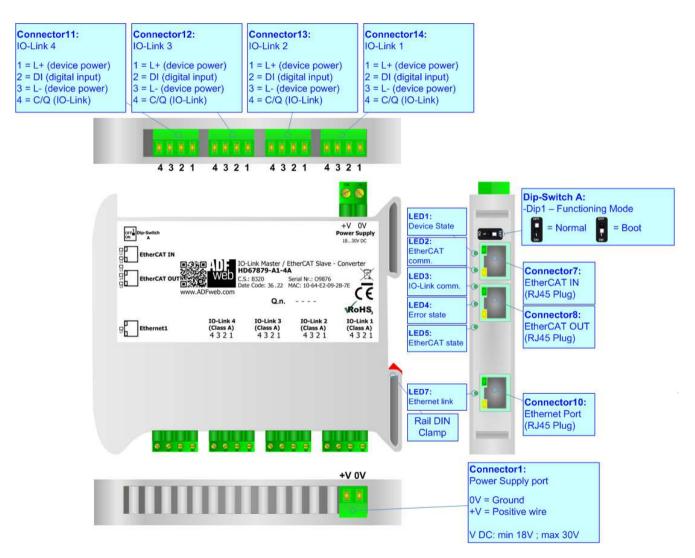


Figure 1b: Connection scheme for HD67879-A1-4A



Document code: MN67879 ENG Revision 1.000 Page 7 of 44

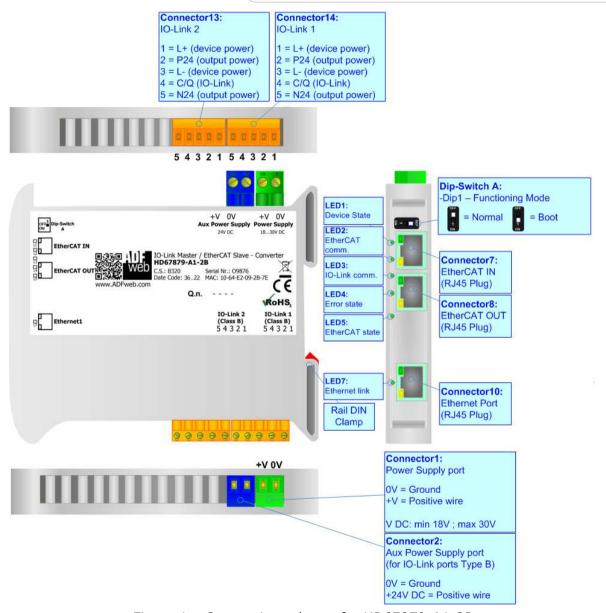


Figure 1c: Connection scheme for HD67879-A1-2B



### User Manual IO-Link Master / EtherCAT Slave

Document code: MN67879 ENG Revision 1.000 Page 8 of 44

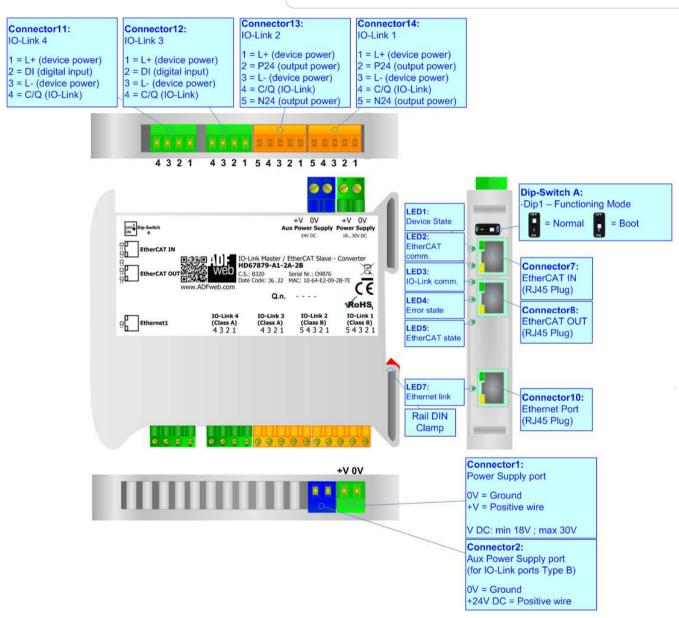


Figure 1d: Connection scheme for HD67879-A1-2A-2B



### User Manual IO-Link Master / EtherCAT Slave

Document code: MN67879 ENG Revision 1.000 Page 9 of 44

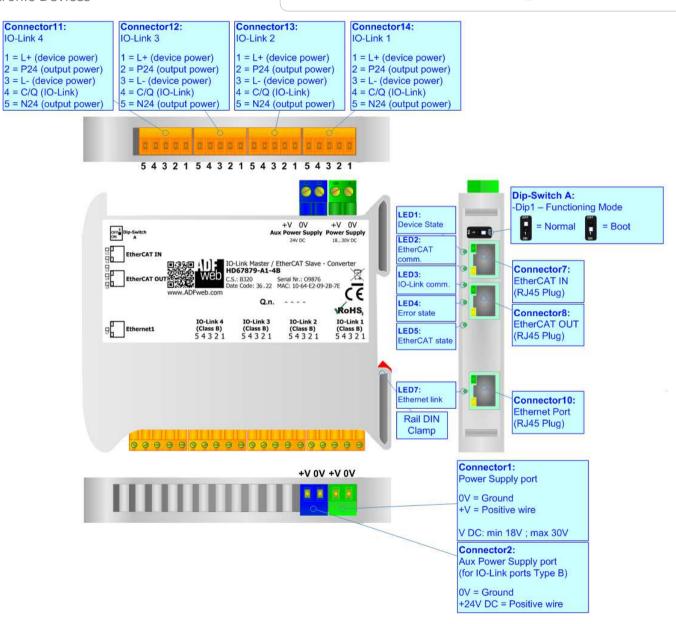


Figure 1e: Connection scheme for HD67879-A1-4B



### User Manual IO-Link Master / EtherCAT Slave

Document code: MN67879 ENG Revision 1.000 Page 10 of 44

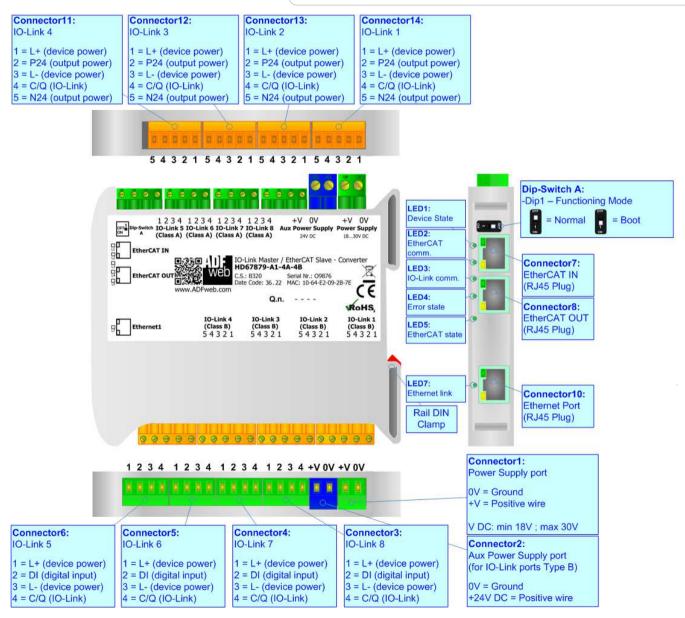


Figure 1f: Connection scheme for HD67879-A1-4A-4B



### User Manual IO-Link Master / EtherCAT Slave

Document code: MN67879\_ENG Revision 1.000 Page 11 of 44

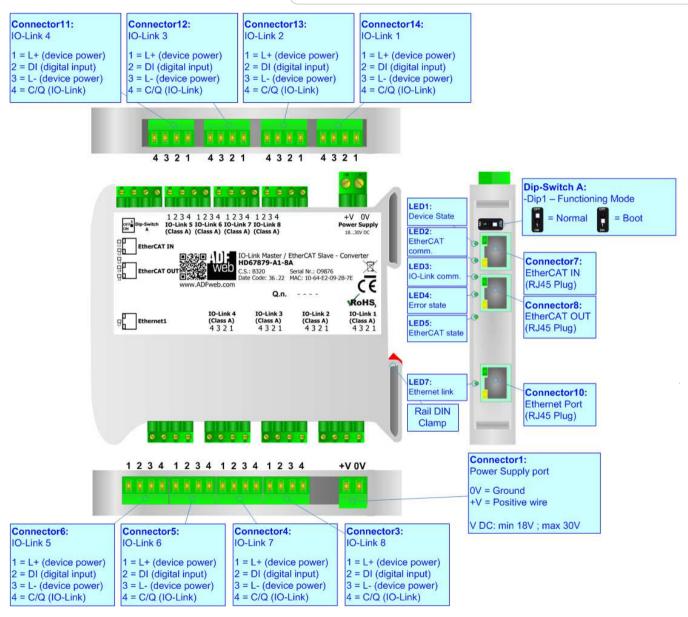


Figure 1g: Connection scheme for HD67879-A1-8A

Document code: MN67879\_ENG Revision 1.000 Page 12 of 44

#### **CHARACTERISTICS:**

The HD67879-A1 is a IO-Link Master / EtherCAT Slave converter.

It allows the following characteristics:

- → Up to 1499 bytes in reading and 1499 bytes in writing;
- → Two-directional information between EtherCAT and IO-Link;
- → Mountable on 35mm Rail DIN;
- → Wide power supply input range: 18...30V DC;
- → Wide temperature range: -40°C / 85°C [-40°F / +185°F].

#### **CONFIGURATION:**

You need Compositor SW67879 software on your PC in order to perform the following:

- Define the parameters of IO-Link;
- Define the parameters of EtherCAT;
- Define IO-Link variables to be read by EtherCAT Master;
- ▶ Define IO-Link variables to be written by EtherCAT Master;
- → Define EtherCAT variables to read and write;
- Export the ESI file for configuration of EtherCAT Master;
- Update the device.

Document code: MN67879\_ENG Revision 1.000 Page 13 of 44

#### **POWER SUPPLY:**

The devices can be powered between a wide range of tensions. For more details see the two tables below.

	VDC	
	Vmin	Vmax
HD67879-A1-xx	18V	30V

### Consumption at 24V DC:

Device	W/VA
HD67879-A1-xx	4



#### Warning:

It is necessary to add to this consumption the one required by the IO-Link devices connected to the IO-Link channels.



### **Caution: Not reverse the polarity power**



Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V DC: min 18V; max 30V

Connector1:
Power Supply port

0V = Ground
+V = Positive wire

V DC: min 18V; max 30V

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Document code: MN67879\_ENG Revision 1.000 Page 14 of 44

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#### **FUNCTION MODES:**

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

- → The first, with Dip1 in Off position (factory setting), is used for the normal working of the device.
- → The second, with Dip1 in On position, is used for upload the Project/Firmware.

For the operations to follow for the updating (see 'UPDATE DEVICE' section).

According to the functioning mode, the LEDs will have specifics functions (see 'LEDS' section).

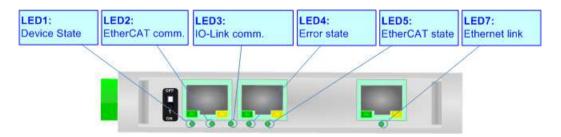


Document code: MN67879 ENG Revision 1.000 Page 15 of 44

#### LEDS:

The device has got five 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: EtherCAT comm. (green)	It blinks when EtherCAT communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: IO-Link comm. (green)	It blinks when IO-Link communication is running	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (green)	ON: An error in the communication busses occurs OFF: No errors are present	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
5: EtherCAT state (green)	OFF: EtherCAT Master not connected  Blinking: EtherCAT Master is connecting  ON: EtherCAT Master is connected	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
7: Ethernet2 link (green)	ON: Ethernet cable connected OFF: Ethernet cable disconnected	ON: Ethernet cable connected OFF: Ethernet cable disconnected



Document code: MN67879\_ENG Revision 1.000 Page 16 of 44

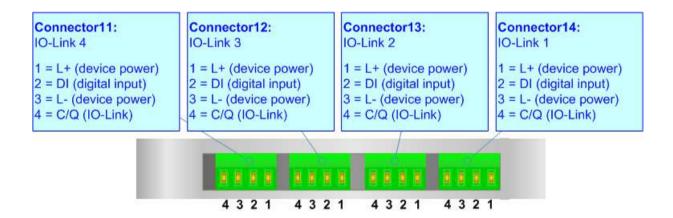
#### **IO-LINK**

IO-Link is the first globally standardized IO technology (IEC 61131-9) that communicates from the controller down to the lowest automation level. This universally applicable interface is a fieldbus-neutral point-to-point connection which uses standard unshielded cables. IO-Link sends all the sensor and actuator signals to the controller and in turn carries controller data to the sensor/actuator level with revolutionary consequences.

It is possible to have IO-Link device of two different type: IO-Link Class A and IO-Link Class B. ADFweb.com's converters can manage both of them in relation to the product code selected.

#### IO-LINK CLASS A:

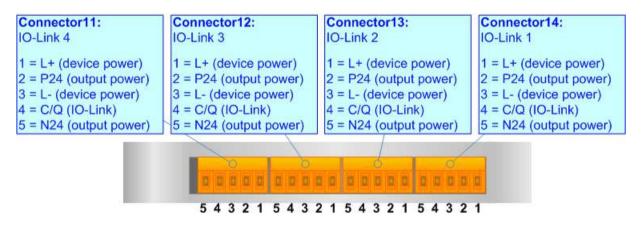
IO-Link Class A devices uses 4 pins on connectors and the input power required can be up to 200mA. These devices are normally sensors and actuators that don't require high input power.



Document code: MN67879\_ENG Revision 1.000 Page 17 of 44

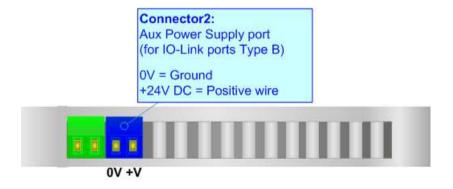
#### IO-LINK CLASS B:

IO-Link Class B devices uses 5 pins on connectors and they require an additional aux power supply used for the actuation. These devices are normally actuators.



### **AUX POWER SUPPLY (for IO-Link Class B):**

The Aux Power Supply port is used to provide the additional power supply for the IO-Link Class B. The input voltage is fixed to 24 V DC and the current depends on the input power required by the IO-Link devices connected to the IO-Link channels Class B.



Document code: MN67879\_ENG Revision 1.000 Page 18 of 44

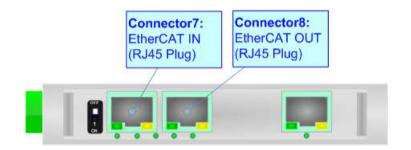
#### **ETHERCAT**

**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.

The converter has two EtherCAT ports, one is used as Input port (Connector7) and it will receive the incoming messages from the Master, the other is used as Output port (Connector8) and i twill forward the messages to the others nodes of the network.

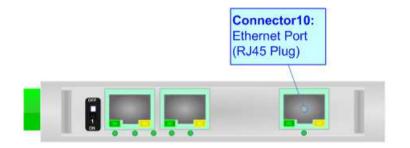


Document code: MN67879\_ENG Revision 1.000 Page 19 of 44

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#### **ETHERNET:**

The Ethernet connection must be made using Connector10 of HD67879-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: MN67879\_ENG Revision 1.000 Page 20 of 44

#### **USE OF COMPOSITOR SW67879:**

To configure the Converter, use the available software that runs with Windows called SW67879. 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, 11; 32/64bit).

When launching the SW67879, the window below appears (Fig. 2).



#### Note:

It is necessary to have installed .Net Framework 4.



Figure 2: Main window for SW67879

Document code: MN67879\_ENG Revision 1.000 Page 21 of 44

### **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 "IO-Link Master / EtherCAT 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".

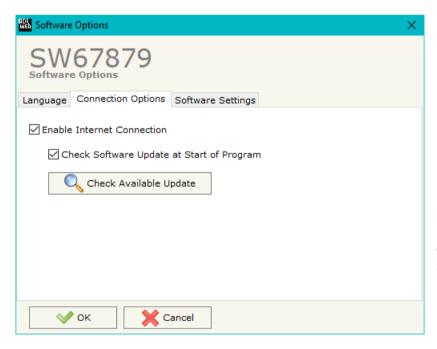


Document code: MN67879 ENG Revision 1.000 Page 22 of 44

#### **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.

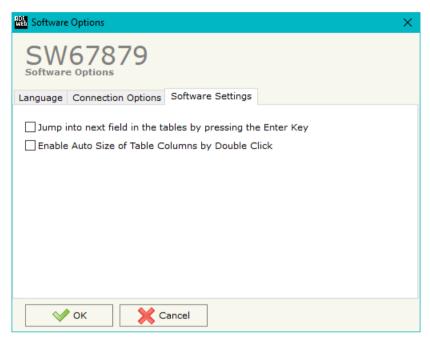




In the section "Connection Options", it is possible to check if there are some updatings of the software compositor in ADFweb.com website. Checking the option "Check Software Update at Start of Program", the SW67879 check automatically if there are updatings when it is launched.







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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Document code: MN67879\_ENG Revision 1.000 Page 24 of 44

#### **SET COMMUNICATION:**

This section define the fundamental communication parameters of two buses, EtherCAT and Modbus TCP.

By Pressing the "Set Communication" button from the main window for SW67E04 (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 "IO-Link" are:

▶ In the field "Select Device" the type of IO-LINK channels is defined.

The means of the fields for "EtherCAT Slave" are:

- ▶ In the field "Revision Number" the revision number of the converter is defined;
- ▶ In the field "Slave Name" the name of the converter is defined;
- → In the field "Node Address" the ID of the converter is defined.

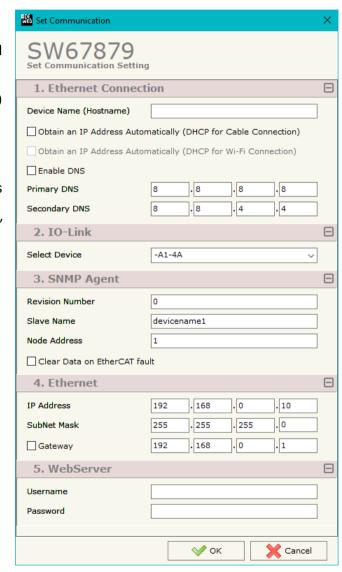


Figure 3a: "Set Communication" window

Document code: MN67879 ENG Revision 1.000 Page 25 of 44

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

- → In the field "IP Address" the IP address of the converter is defined;
- ▼ In the field "Subnet Mask" the SubNet Mask of the converter is defined;
- → In the field "GATEWAY" the default gateway of the net is defined. This feature can be enabled or disabled pressing the Check Box field. This feature is used for going out of the net;

### The means of the fields for "Webserver" are:

- ▶ In the field "Username" the username for accessing to the webserver of the converter is defined;
- → In the field "Password" the password for accessing to the webserver of the converter is defined;

Document code: MN67879\_ENG Revision 1.000 Page 26 of 44

#### **IO-LINK SET ACCESS:**

By Pressing the "**IO-Link Set Access**" button from the main window for SW67879 (Fig. 2) the window "IO-Link Set Access" appears (Fig. 4). This section is used to define the list of IO-Link variables accessible from EtherCAT side.

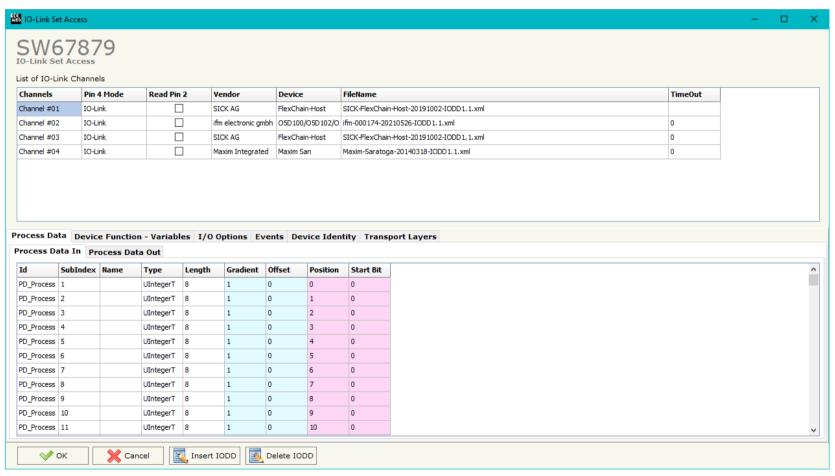


Figure 4: "IO-Link Set Access" window

Document code: MN67879 ENG Revision 1.000 Page 27 of 44

In the "List of IO-Link Channel" section it is possible to configure all the IO-Link channels of the converter (Fig. 5).

Channels	Pin 4 Mode	Read Pin 2	Vendor	Device	FileName
Channel #01	IO-Link		ifm electronic gmbh	O5D100/O5D102/O	ifm-000174-20150804-IODD1.1.xml
Channel #02	IO-Link		ifm electronic gmbh	ROP520 / ROP521	ifm-0001F0-20170324-IODD1.1.xml
Channel #03	IO-Link		Maxim Integrated	Maxim Servo	Maxim-ServoInterface-20150131-IODD1.1.xml
Channel #04	IO-Link		ifm electronic gmbh	TA2**5	ifm-000179-20160325-IODD1.1.xml

Figure 5: "List of IO-Link Channel" section

### The meanings of the fields are:

- ▼ In the field "Channels" the index of the IO-Link channel is defined;
- ▼ In the field "Pin 4 Mode" the mode of the pin 4 of the IO-Link device is defined (if "Io-Link" is selected, a file IODD is needed);
- ▼ If the field "Read Pin 2" is checked, the pin 2 of the IO-Link device is read;
- ★ In the field "Vendor" the vendor of the IO-Link device is defined;
- ▼ In the field "Device" the name of the IO-Link device is defined;
- ▼ In the field "FileName" the name of the IODD file inserted is defined;
- ▶ In the field "Timeout" the timeout for IO-Link communication is defined. If there is no communication for the defined timeout, the data on EtherCAT will be set to 0.

Document code: MN67879 ENG Revision 1.000 Page 28 of 44

By clicking on "Insert IODD", the window "IO-Link IODD Catalog" appears (Fig. 6). This section is used to select an IO-Link device. By clicking on "Add IODD" it is possible to add a new IODD file (the extension must be .xml).

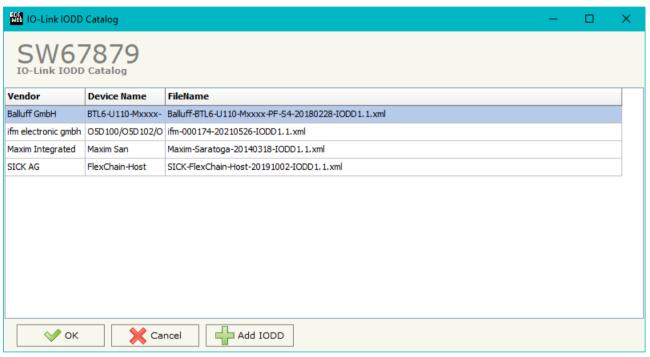


Figure 6: "IO-Link IODD Catalog" section

Document code: MN67879 ENG Revision 1.000 Page 29 of 44

The "Process Data" section is used to define the IO-Link process data to link to EtherCAT side (Fig. 7).

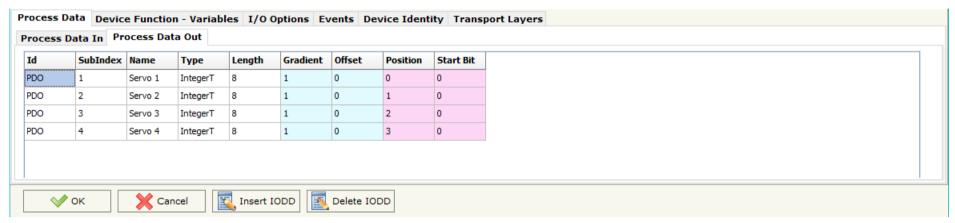


Figure 7: "Process Data" section

The meanings of the fields are:

- ★ In the field "Id" the Id of the IO-Link process data is defined;
- ▶ In the field "SubIndex" the subindex of the IO-Link process data is defined;
- ▼ In the field "Name" the name of the IO-Link process data is defined;
- ▼ In the field "Type" the data format of the IO-Link process data is defined;
- In the field "Length" the bit length of the IO-Link process data is defined;
- ▼ In the field "Gradient" the multiplication factor of the IO-Link process data is defined;
- ▼ In the field "Offset" the offset of the IO-Link process data is defined;
- ▶ In the field "Position" the starting byte of the internal memory arrays where mapping/getting the value is defined;
- ▶ In the field "Start Bit" the starting bit of the byte of the field "Position" is defined.

Document code: MN67879 ENG Revision 1.000 Page 30 of 44

The "Device Function – Variables" section is used to define the IO-Link parameters to link to EtherCAT side (Fig. 8).



Figure 8: "Device Function - Variables" section

The meanings of the fields are:

- In the field "Index" the Index of the IO-Link parameter is defined;
- ▼ In the field "SubIndex" the Subindex of the IO-Link parameter is defined;
- In the field "Id" the Id of the IO-Link parameter is defined;
- ★ In the field "Name" the name of the IO-Link parameter is defined;
- In the field "Type" the data format of the IO-Link parameter is defined;
- ♣ In the field "Access" the access type of the IO-Link parameter is defined;
- → In the field "Length" the bit length of the IO-Link parameter is defined;
- ▶ In the field "SindAccSupp" the value of subindexAccessSupported attribute of the IO-Link parameter is defined;



### User Manual IO-Link Master / EtherCAT Slave

Document code: MN67879 ENG Revision 1.000 Page 31 of 44

- → In the field "BitOff" the bit offset of the IO-Link parameter is defined;
- ▼ In the field "Default" the default value of the IO-Link parameter is defined;
- ▼ In the field "Value" the starting value of the IO-Link parameter is defined;
- → In the field "Description" a description of the IO-Link parameter is defined.

Document code: MN67879 ENG Revision 1.000 Page 32 of 44

The "I/O Options" section is used to define how linking the data from IO-Link pin 2 and pin 4 to EtherCAT side (Fig. 9).

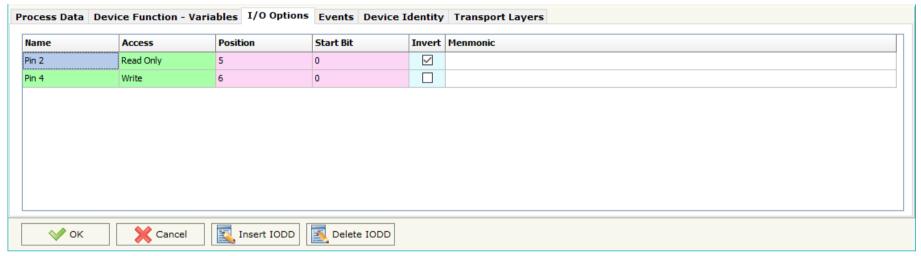


Figure 9: "I/O Options" section

### The meanings of the fields are:

- ▼ In the field "Access" the access of the IO-Link pin is defined;
- ▶ In the field "Position" the starting byte of the internal memory arrays where mapping/getting the value is defined;
- ▼ In the field "Start Bit" the starting bit of the byte of the field "Position" is defined.
- → If the field "Invert" the value to map/get is inverted;
- ▶ In the field "Mnemonic" a description of the variable is defined.

## 1

#### Note:

IO-Link pin 2 can only be read and IO-LINK pin 4 can be defined if "Pin 4 Mode" is set to "DIn" or "DOut" in "List of IO-Link Channel" section.

Document code: MN67879 ENG Revision 1.000 Page 33 of 44

The "Events" section is used to define the IO-LINK events to map on EtherCAT side (Fig. 10).

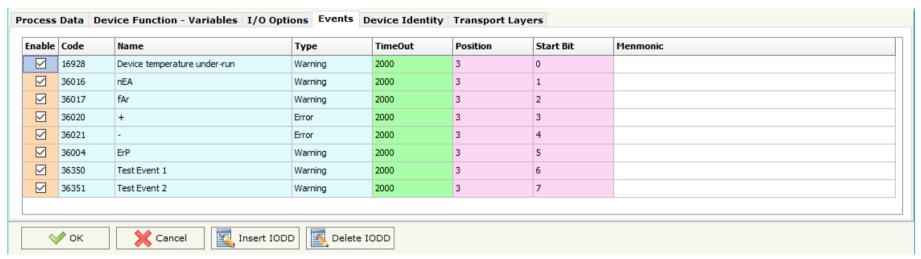


Figure 10: "Events" section

The meanings of the fields are:

- In the field "Code" the code of the IO-Link event is defined;

- ▼ In the field "TimeOut" the duration of the IO-Link event after its activation is defined;
- ▶ In the field "Position" the starting byte of the internal memory arrays where mapping/getting the value is defined;
- ▼ In the field "Start Bit" the starting bit of the byte of the field "Position" is defined;
- ▶ In the field "Mnemonic" a description of the variable is defined.



Document code: MN67879\_ENG Revision 1.000 Page 34 of 44

In "Device Identity" section (Fig. 11) and "Transport Identity" section (Fig. 12), the main features of the selected IO-Link device are reported. These characteristics are read from the IODD file.

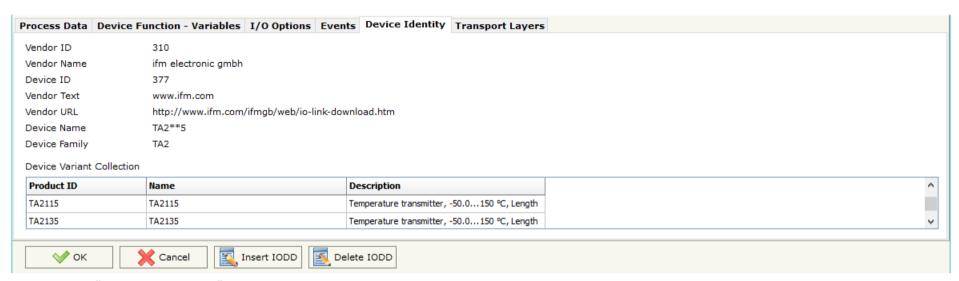


Figure 11: "Transport Layers" section



Figure 12: "Device Identity" section

Document code: MN67879\_ENG Revision 1.000 Page 35 of 44

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

By Pressing the "EtherCAT Set Access" button from the main window for SW67879 (Fig. 2) the window "EtherCAT Slave Set Access" appears (Fig. 13).

This section is used to define the EtherCAT variables readable by the EtherCAT Master (Slave To Master) and the EtherCAT variables writeable by the EtherCAT Master (Master To Slave).

#### **SLAVE TO MASTER**

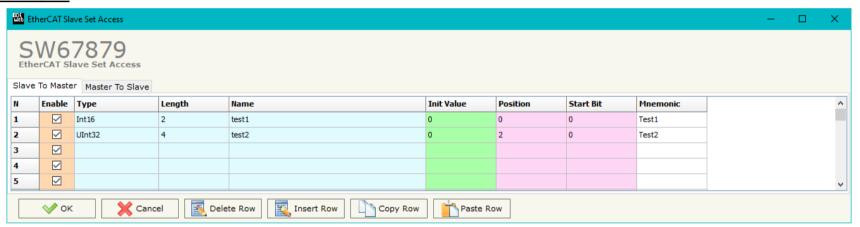


Figure 13a: "EtherCAT Slave Set Access → Slave To Master"

#### The means of the fields are:

- If the field "Enable" is checked, the EtherCAT variable is enabled;
- ▶ In the field "Type" the data format of the EtherCAT variable is defined;
- → In the field "Lenght" the dimension of the EtherCAT variable is defined;
- → In the field "Name" the name of the EtherCAT variable is defined;
- In the field "Init Value" the default value of the EtherCAT variable is defined;
- ▶ In the field "Position" the starting address of the EtherCAT 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: MN67879\_ENG Revision 1.000 Page 36 of 44

### **MASTER TO SLAVE**



Figure 13b: "EtherCAT Slave Set Access → Master To Slave"

#### The means of the fields are:

- → If the field "Enable" is checked, the EtherCAT variable is enabled;
- ▶ In the field "Type" the data format of the EtherCAT variable is defined;
- → In the field "Lenght" the dimension of the EtherCAT variable is defined;
- ▼ In the field "Name" the name of the EtherCAT variable is defined;
- ▼ In the field "Position" the starting address of the EtherCAT 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: MN67879\_ENG Revision 1.000 Page 37 of 44

#### **ETHERCAT ESI FILE:**

By pressing the "EtherCAT ESI File" button it is possible to save the ESI file for the EtherCAT side of the converter. The ESI file is used to configure the EtherCAT Master.

Document code: MN67879\_ENG Revision 1.000 Page 38 of 44

#### **UPDATE DEVICE:**

By pressing the "**Update Device**" button, it is possible to load the created Configuration into the device; and also the Firmware, if necessary. This by using the Ethernet port.

If you don't know the actual IP address of the device, you have to use this procedure:

- Turn OFF the Device;
- ▶ Put Dip1 of 'Dip-Switch A' in ON position;
- Turn ON the device
- Connect the Ethernet cable;
- Insert the IP "192.168.2.205";
- Select which operations you want to do;
- Press the "Execute update firmware" button to start the upload;
- ♦ When all the operations are "OK" turn OFF the Device;
- Put Dip1 of 'Dip-Switch A' in OFF position;
- Turn ON the device.

If you know the actual IP address of the device, you have to use this procedure:

- → Turn ON the Device with the Ethernet cable inserted;
- Insert the actual IP of the Converter;
- Select which operations you want to do;
- Press the "Execute update firmware" button to start the upload;
- ♦ When all the operations are "OK" the device automatically goes at Normal Mode.

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



Figure 14: "Update device" windows



Document code: MN67879 ENG Revision 1.000 Page 39 of 44



#### Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67879 device.

### Warning:

If Fig. 15 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 Windows Seven, Vista, 8 or 10 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 you have to launch the "Command Prompt" with Administrator Rights;
- Pay attention at Firewall lock.





Figure 15: "Error" window

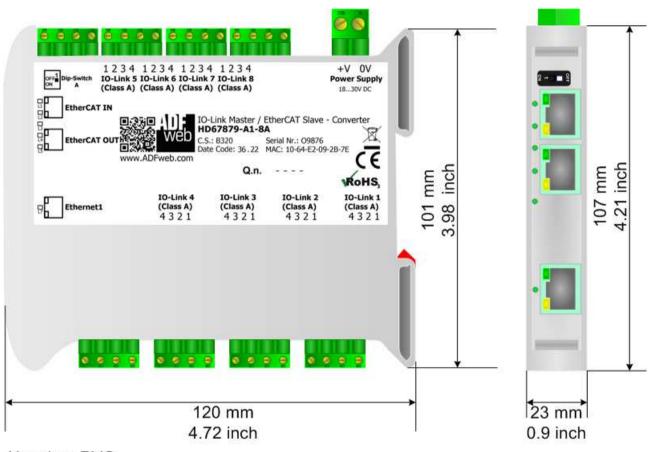


#### <u>Warning:</u>

In the case of HD67879 you have to use the software "SW67879": <a href="www.adfweb.com\download\filefold\SW67879.zip">www.adfweb.com\download\filefold\SW67879.zip</a>.

Document code: MN67879 ENG Revision 1.000 Page 40 of 44

#### **MECHANICAL DIMENSIONS:**



Housing: PVC

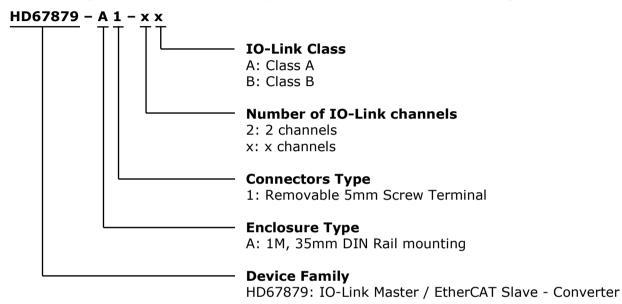
Weight: 200g (Approx)

Figure 16: Mechanical dimensions scheme for HD67879-A1-xx

Document code: MN67879\_ENG Revision 1.000 Page 41 of 44

#### **ORDERING INFORMATIONS:**

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



Order Code: HD67879-A1-2A - IO-Link Master / EtherCAT Slave - Converter (IO-Link ports: 2 x Class A)
Order Code: HD67879-A1-4A - IO-Link Master / EtherCAT Slave - Converter (IO-Link ports: 4 x Class A)
Order Code: HD67879-A1-2B - IO-Link Master / EtherCAT Slave - Converter (IO-Link ports: 2 x Class B)
Order Code: HD67879-A1-2A-2B - IO-Link Master / EtherCAT Slave - Converter (IO-Link ports: 2 x Class A and 2 x Class B)
Order Code: HD67879-A1-4B - IO-Link Master / EtherCAT Slave - Converter (IO-Link ports: 4 x Class B)

Order Code: **HD67879-A1-4A-4B** - IO-Link Master / EtherCAT Slave – Converter (IO-Link ports: 4 x Class A and 4 x Class B)

Order Code: **HD67879-A1-8A** - IO-Link Master / EtherCAT Slave – Converter (IO-Link ports: 8 x Class A)



Document code: MN67879\_ENG Revision 1.000 Page 42 of 44

#### **ACCESSORIES:**

Order Code: **AC34011** - Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V DC

Order Code: **AC34012** - Rail DIN - Power Supply 220/240V AC 50/60Hz - 24 V DC



Document code: MN67879 ENG Revision 1.000 Page 43 of 44

#### **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: MN67879\_ENG Revision 1.000 Page 44 of 44

#### **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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