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# **User** Manual

Revision 1.000 English

# **IO-Link / Modbus TCP Slave - Converter**

(Order Code: HD67863-A1-2A, HD67863-A1-4A, HD67863-A1-2B, HD67863-A1-2B)

# **Benefits and Main Features:**

Triple electrical isolation

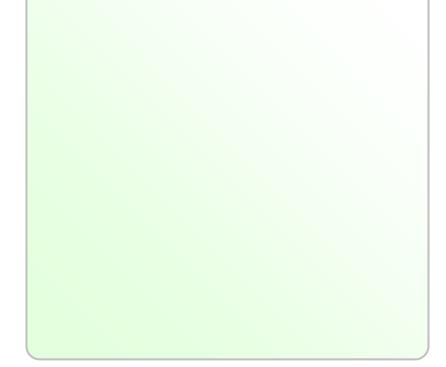
Two Ethernet ports

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

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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 <u>www.adfweb.com/download/</u> 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	13/03/2020	Ff	All	First release version

### WARNING:

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

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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.

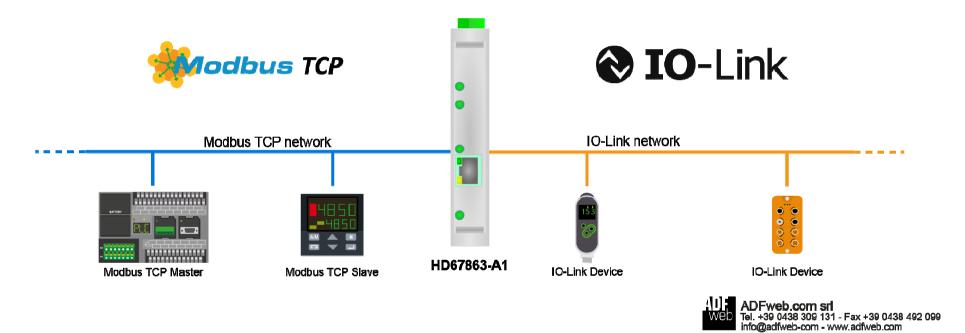
### **CE** CONFORMITY

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



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# **EXAMPLE OF CONNECTION:**



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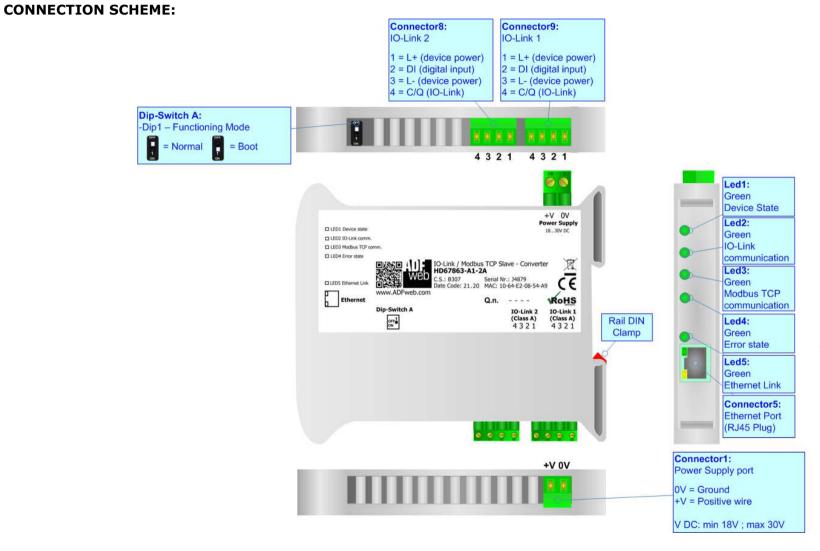


Figure 1a: Connection scheme for HD67863-A1-2A

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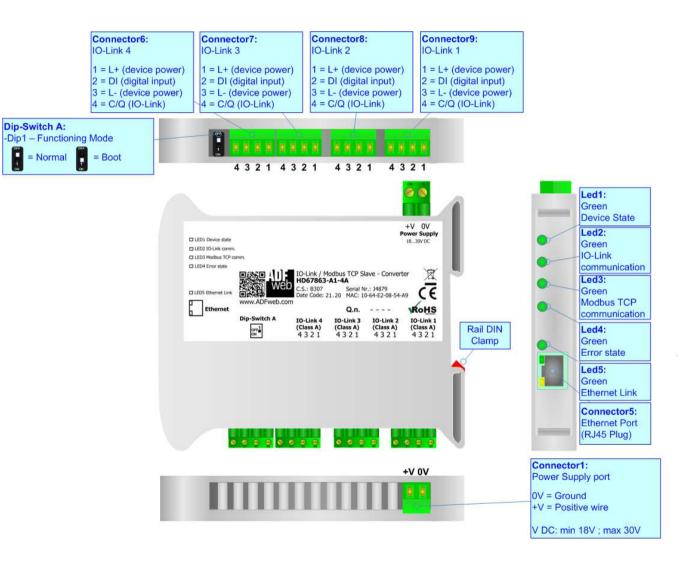


Figure 1b: Connection scheme for HD67863-A1-4A

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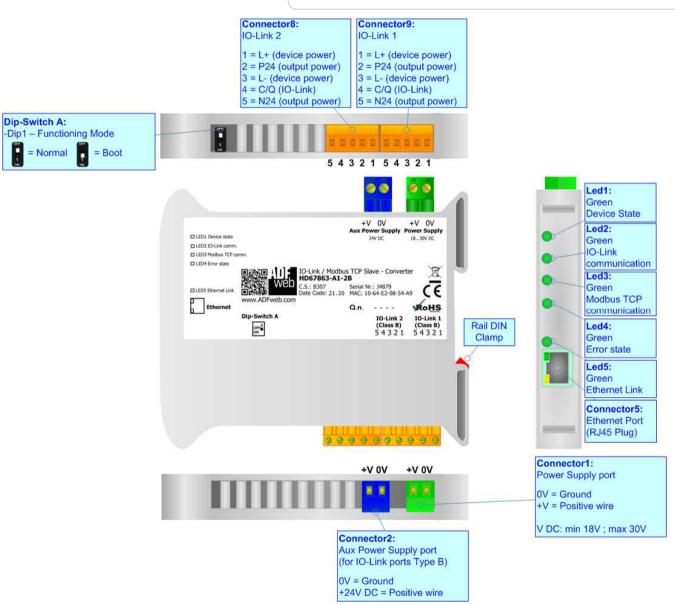


Figure 1c: Connection scheme for HD67863-A1-2B

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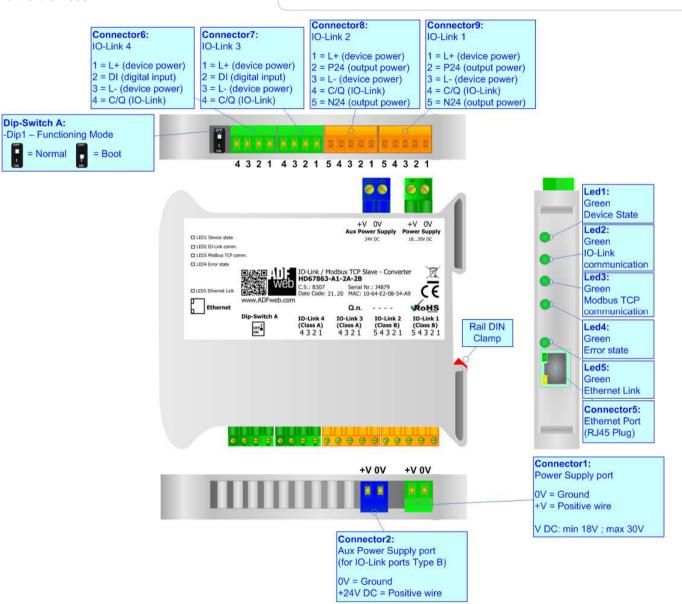


Figure 1d: Connection scheme for HD67863-A1-2A-2B



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### CHARACTERISTICS:

The HD67863-A1 is a IO-Link / Modbus TCP Slave converter.

It allows the following characteristics:

- ✤ Up to 1500 bytes in reading and 1500 bytes in writing;
- Two-directional information between Modbus TCP and IO-Link;
- 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 SW67863 software on your PC in order to perform the following:

- Define the parameters of IO-Link;
- Define the parameters of Modbus TCP;
- Define IO-Link variables to be read by the Modbus TCP Master;
- Define IO-Link variables to be written by the Modbus TCP Master;
- Update the device.



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### **POWER SUPPLY:**

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

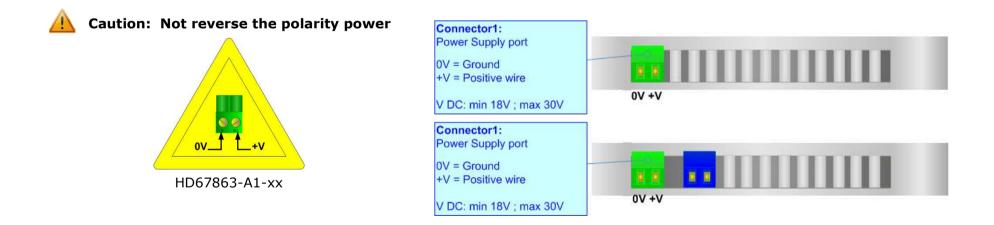
	VDC	
	Vmin	Vmax
HD67863-A1-xx	18V	30V

Consumption at 24V DC:

Device	W/VA
HD67863-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.





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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).



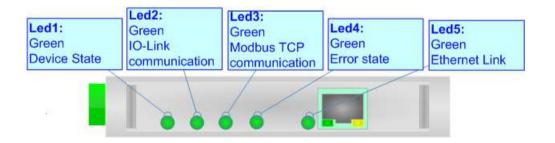


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### LEDS:

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: IO-Link comm. (green)	Flashing: IO-Link communication OFF: No IO-Link communication	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
3: Modbus TCP comm. (green)	Flashing: Modbus TCP communication OFF: No Modbus TCP communication	Blinks quickly: Boot state Blinks very slowly (~0.5Hz): update in progress
4: Error state (green)	<b>ON:</b> at least one IO-Link device is not communicating <b>OFF:</b> 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 not connected	ON: Ethernet cable connected OFF: Ethernet cable not connected





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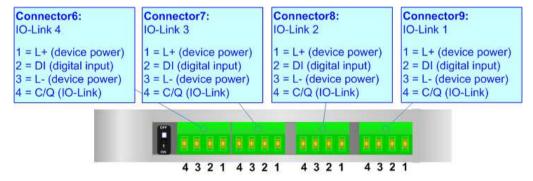
### **IO-LINK**

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.

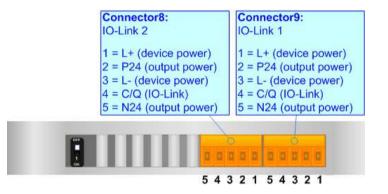




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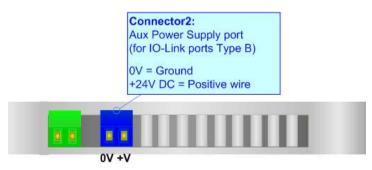
### IO-LINK CLASS B:

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.

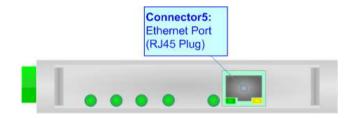




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### ETHERNET:

The Ethernet connection must be made using Connector5 of HD67863-A1 with at least a Category 5E cable. The maximum length of the cable should not exceed 100m. The cable has to conform to the T568 norms relative to connections in cat.5 up to 100 Mbps. To connect the device to an Hub/Switch is recommended the use of a straight cable, to connect the device to a PC/PLC/other is recommended the use of a cross cable.





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### **USE OF COMPOSITOR SW67863:**

To configure the Converter, use the available software that runs with Windows called SW67863. It is downloadable on the site <u>www.adfweb.com</u> 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 SW67863, the window below appears (Fig. 2).

Note: It is necessary to have installed .Net Framework 4.

ADFweb.	com - Configurator SW67863 - IO-Link / Modbus TCP Slave	×
	67863 / Modbus TCP Slave - Converter	
Begin	Opened Configuration of the Converter : Example1	
Step 1	New Configuration	
Step 2	Set Communication	
Step 3	IO-Link Set Access	
Step 4	Vpdate Device UDP	www.ADFweb.com

Figure 2: Main window for SW67863



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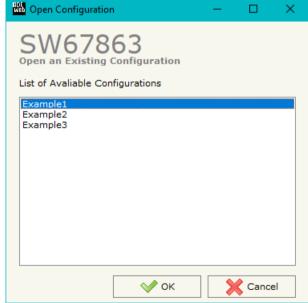
## **NEW CONFIGURATION / OPEN CONFIGURATION:**

The "New Configuration" button creates the folder which contains the entire device's configuration.

🔛 Create New Configuration 🛛 🗙	5
SW67863 Create New Configuration	
Example2	
OK Cancel	

A device's configuration can also be imported or exported:

- To clone the configurations of a programmable "IO-Link / Modbus TCP Slave -Converter" in order to configure another device in the same manner, it is necessary to maintain the folder and all its contents;
- To clone a project in order to obtain a different version of the project, it is sufficient to duplicate the project folder with another name and open the new folder with the button "Open Configuration".





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### **SOFTWARE OPTIONS:**

By pressing the **"Settings**" () button there is the possibility to change the language of the software and check the updatings for the compositor.

In the section "Language" it is possible to change the language of the software.

Web Software	Options	×						
	67863							
Language	Connection Options	Software Settings						
Enable Internet Connection     Check Software Update at Start of Program								
	💫 Check Available U	pdate						
$\checkmark$	ок 🗙 с	ancel						

Web Software	Options		×
	67863		
Language	Connection Options	Software Settings	
Selected	Language :		
	English		
		Page 1 / 1	
	ок 🗙 Са	incel	

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 SW67863 check automatically if there are updatings when it is launched.



# Software Options SW67863 Software Options Language Connection Options Software Settings Jump into next field in the tables by pressing the Enter Key Enable Auto Size of Table Columns by Double Click

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In the section "Software Settings", it is possible to enable/disable some keyboard's commands for an easier navigation inside the tables contained in the different sections of the software.

X Cancel

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### **SET COMMUNICATION:**

This section defines the fundamental communication parameters of Modbus TCP.

By Pressing the "**Set Communication**" button from the main window for SW67863 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "IO-LINK" are:

✤ In the fields "Select Device" the type of IO-LINK channels is defined;

The means of the fields for "Modbus TCP Slave" are:

- In the fields "IP Address" the IP address for Modbus TCP side of the converter is defined;
- In the fields "SubNet Mask" the SubNet Mask for Modbus TCP side of the converter is defined;
- In the fields "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;
- In the field "Port" the TCP port used for Modbus TCP communication is defined.

Set Communication		×
SW67863 Set Communication Settin	g	
1. IO-Link		Ξ
Select Device	HD67863-A1-4A ~	]
2. Modbus TCP Slav	re la	Ξ
IP Address	192 . 168 . 0 . 10	]
SubNet Mask	255 . 255 . 255 . 0	]
Gateway	192 . 168 . 0 . 1	]
Port	502	]
	OK Cancel	

Figure 3: "Set Communication" window



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# **IO-LINK SET ACCESS:**

By Pressing the "**IO-Link Set Access**" button from the main window for SW67863 (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 Modbus TCP side.

	s Pir	4 Mode	Read Pin	n 2	Vendor	Device		FileName
Channel	#01 IO-	Link	E		ifm electronic gr	ibh 05D100	)/O5D102/O	ifm-000174-201
Channel	#02 IO-	Link			ifm <mark>e</mark> lectronic gr	ibh ROP520	)/ROP521	ifm- <mark>0</mark> 001F0-201
Channel	#03 IO-	Link	L L	-30	Maxim Integrate	d Maxim S	Servo	Maxim-ServoInt
Channel	#04 IO-	Link	L		ifm electronic gr	bh TA2**5		ifm-000179-201
Id					1947	1 Aller		
,	4	DT 1	DeeleenT			0	0	0
PDI	1	DI 1	BooleanT BooleanT	1	1	0	8	0
,	1 2 3	DI 1 DI 2 DI 3	BooleanT	1 1	1 1 1 1	0	8	1
PDI PDI	2	DI 2		1	1			
PDI PDI PDI	2 3	DI 2 DI 3	BooleanT BooleanT	1	1	0 0	8 8	1 2
PDI PDI PDI PDI	2 3 4	DI 2 DI 3 DI 4	BooleanT BooleanT BooleanT	1 1 1	1 1 1	0 0 0	8 8 8	1 2 3
PDI PDI PDI PDI PDI	2 3 4 5	DI 2 DI 3 DI 4 SIO	BooleanT BooleanT BooleanT BooleanT	1 1 1 1	1 1 1 1	0 0 0 0	8 8 8 8	1 2 3 4

*Figure 4:* "IO-Link Set Access" window



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

List of IO-Link (	Channels					
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-IODD 1.1.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;



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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).

🛍 IO-Link IODD Catalog — 🗆 🗙							
SW67863 IO-Link IODD Catalog							
Vendor	Device Name	FileName					
ifm electronic gmbh	O5D100/O5D102/O	ifm-000174-20150804-IODD1.1.xml					
ifm electronic gmbh	TA2**5	ifm-000179-20160325-IODD1.1.xml					
ifm electronic gmbh	ROP520 / ROP521	ifm-0001F0-20170324-IODD1.1.xml					
Maxim Integrated	Maxim San	Maxim-Saratoga-20140318-IODD 1.1.xml					
Maxim Integrated	Maxim Servo	Maxim-ServoInterface-20150131-IODD1.1.xml					
ок	Car	ncel Add IODD					

Figure 6: "IO-Link IODD Catalog" section



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

Id	SubIndex	Name	Туре	Length	Gradient	Offset	Position	Start Bit
PDO	1	Servo 1	IntegerT	8	1	0	0	0
PDO	2	Servo 2	IntegerT	8	1	0	1	0
PDO	3	Servo 3	IntegerT	8	1	0	2	0
PDO	4	Servo 4	IntegerT	8	1	0	3	0



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.



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

Enable	Index	SubIndex	Id	Name	Туре	Access	Length	SindAccSupp	TotBitLen	BitOff	Default	Value	Description	1
	542		V_Operating_Hours	Operating_Hours	UIntegerT	Read Only	16	False	16	0			Operating hours	
	551		V_uni	uni	UIntegerT	Read Write	8	False	8	0	0		Selection of unit on	
	552		V_diS	diS	RecordT	Read Write	16	False	16	0			Display settings	
	552	1	V_diS	Display On / OFF	BooleanT	Read Write	1	False	16	7	false			
	552	2	V_diS	Display orientation	BooleanT	Read Write	1	False	16	6	false			1
	552	3	V_diS	Update rate	UIntegerT	Read Write	6	False	16	0	2			1
	554		V_coLr	coLr	UIntegerT	Read Write	8	False	8	0	2		Assignment of the	1
	555		V_cFH	dFH	IntegerT	Read Write	16	False	16	0	512		Upper value for	1
	556		V_dFL	ďFL	IntegerT	Read Write	16	False	16	0	256		Lower value for	1
	580		V_ou1_rPM	ou1_RPM	UIntegerT	Read Write	8	False	8	0	3		Output	1
	583		V_SP_FH1	SP_FH1	IntegerT	Read Write	16	False	16	0	5000		Switch point 1,	1
	584		V_rP_FL1	rP_FL1	IntegerT	Read Write	16	False	16	0	4000		Reset point 1,	1

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;



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- In the field "TotBitLen" the bit length of the array to which the IO-Link parameter refers is defined;
- 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.



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

occos butu	Device Function - Varia	ables I/O Options	Events Device I	dentity	Transport Layers
Name	Access	Position	Start Bit	Invert	Menmonic
Pin 2	Read Only	5	0		
Pin 4	Write	6	0		

Figure 9: "I/O Options" section

The meanings of the fields are:

- In the field "Name" the name of the IO-Link pin is defined;
- 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.

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.



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

nable	Code	Name	Туре	TimeOut	Position	Start Bit	Menmonic
	16928	Device temperature under-run	Warning	2000	3	0	
	36016	nEA	Warning	2000	3	1	
	36017	fAr	Warning	2000	3	2	
	36020	+	Error	2000	3	3	
	36021	-	Error	2000	3	4	
	36004	ErP	Warning	2000	3	5	
	36350	Test Event 1	Warning	2000	3	6	
	36351	Test Event 2	Warning	2000	3	7	

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 "Name" the name of the IO-Link event is defined;
- In the field "Type" the type 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.



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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.

Proc	ess Data Device	Function - Variables I/O Options Eve	ents Device Identity	Transport Layers	
Ven	dor ID	310			
Ven	dor Name	ifm electronic gmbh			
Dev	ice ID	377			
Ven	dor Text	www.ifm.com			
Ven	dor URL	http://www.ifm.com/ifmgb/web/io-link-d	ownload.htm		
Dev	ice Name	TA2**5			
Dev	ice Family	TA2			
Dev	ice Variant Collectio	n			
Pro	duct ID	Name	Description		^
TA2	115	TA2115	Temperature transmitter,	-50.0150 °C, Length	
TA2	135	TA2135	Temperature transmitter,	-50.0150 °C, Length	v -
	🔶 ок	Cancel	Delete IODD		

Figure 11: "Transport Layers" section



Figure 12: "Device Identity" section



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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. 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.

Update Device by Ethernet (UDP)	×						
SW67863 Update Device Using the Ethernet Port							
Insert the IP Address of Device							
Select Update Options							
Firmware + Configuration	~						
Read Back							
Cancel							
ADFweb.com - SW67863 Ethernet Update	×						
ADFweb.com - SW67863 Ethernet Update	Ver. 1.602						
	^						
INIT : Waiting	^						
INIT : Waiting FIRMWARE : Waiting	^						

Figure 13: "Update device" windows



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/ <u>Note:</u>

When you receive the device, for the first time, you also have to update the Firmware in the HD67863 device.

# Warning:

If Fig. 14 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;
- f you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven, Vista, 8 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.

ADFweb.com - SW67863 Ethernet Update	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67863 Ethernet Update	×
ADFweb.com - SW67863 Ethernet Update	× Ver. 1.602
	^
INIT : PROTECTION	^
INIT : <b>PROTECTION</b> FIRMWARE : <b>Waiting</b>	^

Figure 14: "Error" window

# Warning:

In the case of HD67863 you have to use the software "SW67863": <u>www.adfweb.com\download\filefold\SW67863.zip</u>.



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### MODBUS MAP:

Data in reading:

Туре	Address	Function	Description
Input Register	0	04	Bytes 0-1 of internal array (Position)
Input Register	1	04	Bytes 2-3 of internal array (Position)
Input Register	2	04	Bytes 4-5 of internal array (Position)

Input Register	749	04	Bytes 1498-1499 of internal array (Position)
----------------	-----	----	--

Data in writing:

Туре	Address	Function	Description
Holding Register	0	R: 03 W: 06/16	Bytes 0-1 of internal array (Position)
Holding Register	1	R: 03 W: 06/16	Bytes 2-3 of internal array (Position)
Holding Register	2	R: 03 W: 06/16	Bytes 4-5 of internal array (Position)

Holding Register	2047	R: 03 W: 06/16	Bytes 1498-1499 of internal array (Position)
------------------	------	-------------------	--

Note:

The data can be read/written as single bits too using Input/Coil Status (Function 02 and Functions 01/05/15).



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### **MECHANICAL DIMENSIONS:**

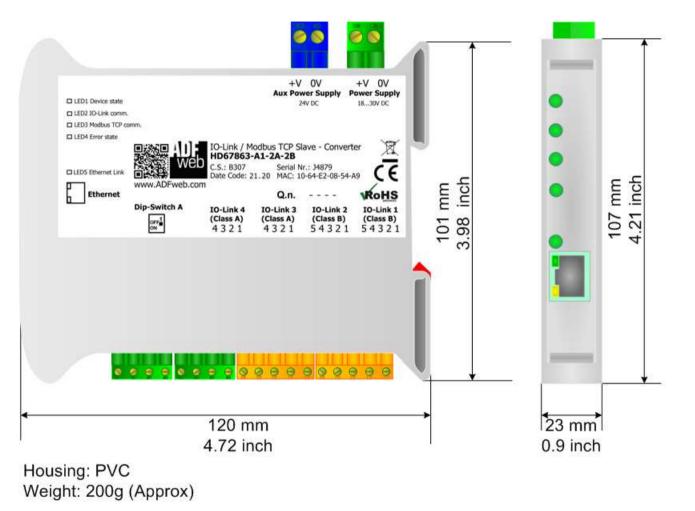


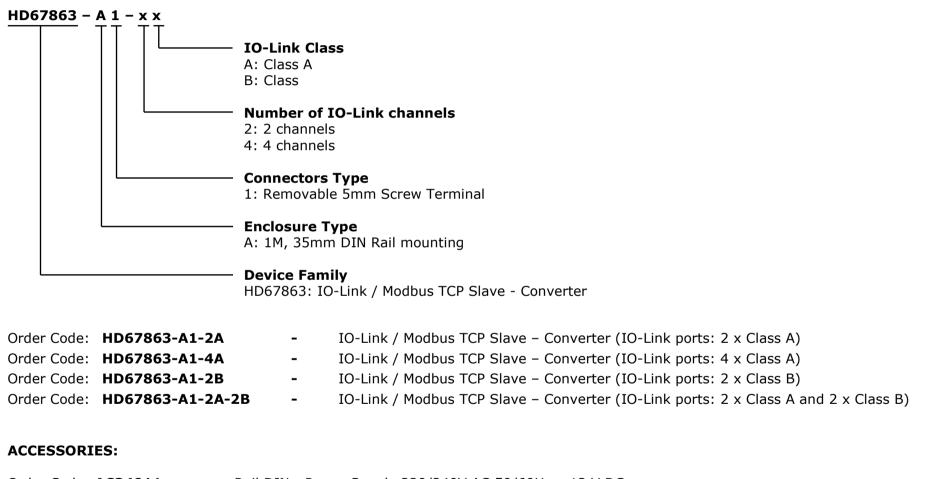
Figure 15: Mechanical dimensions scheme for HD67863-A1-xx



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### **ORDERING INFORMATIONS:**

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



 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



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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.I. 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.I. 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 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 <u>www.adfweb.com</u>. 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 <u>www.adfweb.com</u>. 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



INFO: <u>www.adfweb.com</u> Phone