

User Manual

Revision 1.000 English

IEC 61850 Server / PROFINET Slave - Converter

(Order Code: HD67752-A1)

For Website information: <u>www.adfweb.com?Product=HD67752</u>

For Price information: www.adfweb.com?Price=HD67752-A1

Benefits and Main Features:

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



For other IEC 61850 Server products see also the following link:

Converter IEC 61850 Server to

www.adfweb.com?Product=HD67733 www.adfweb.com?Product=HD67734 www.adfweb.com?Product=HD67735 www.adfweb.com?Product=HD67736 www.adfweb.com?Product=HD67737 www.adfweb.com?Product=HD67738 www.adfweb.com?Product=HD67739 www.adfweb.com?Product=HD67740 www.adfweb.com?Product=HD67741 www.adfweb.com?Product=HD67742 www.adfweb.com?Product=HD67743 www.adfweb.com?Product=HD67744 www.adfweb.com?Product=HD67745 www.adfweb.com?Product=HD67746 www.adfweb.com?Product=HD67747 www.adfweb.com?Product=HD67748 www.adfweb.com?Product=HD67749 www.adfweb.com?Product=HD67750 www.adfweb.com?Product=HD67751 www.adfweb.com?Product=HD67753 www.adfweb.com?Product=HD67754 www.adfweb.com?Product=HD67755 www.adfweb.com?Product=HD67756 www.adfweb.com?Product=HD67B82 www.adfweb.com?Product=HD67C65 (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) (KNX) (MOTT) (NMEA 0183) (NMEA 2000) (PROFIBUS Master) (PROFIBUS Slave) (SNMP Manager) (SNMP Agent) (Serial) (Ethernet) (PROFINET Master) (EnOcean)

Do you have your customer protocol? Then go to: www.adfweb.com?Product=HD67003

Do you need to choose a device? Do you want help? www.adfweb.com?Cmd=helpme



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UPDATED DOCUMENTATION:

Dear customer, we thank you for your attention and we remind you that you need to check that the following document is:

- + Updated
- Related to the product you own

To obtain the most recently updated document, note the "document code" that appears at the top right-hand corner of each page of this document.

With this "Document Code" go to web page <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	18/09/2019	Ff	All	First Release

WARNING:

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

TRADEMARKS:

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SECURITY ALERT:

GENERAL INFORMATION

To ensure safe operation, the device must be operated according to the instructions in the manual. When using the device, legal and safety regulation are required for each individual application. The same applies also when using accessories.

INTENDED USE

Machines and systems must be designed so the faulty conditions do not lead to a dangerous situation for the operator (i.e. independent limit switches, mechanical interlocks, etc.).

QUALIFIED PERSONNEL

The device can be used only by qualified personnel, strictly in accordance with the specifications.

Qualified personnel are persons who are familiar with the installation, assembly, commissioning and operation of this equipment and who have appropriate qualifications for their job.

RESIDUAL RISKS

The device is state-of-the-art and is safe. The instruments can represent a potential hazard if they are inappropriately installed and operated by untrained personnel. These instructions refer to residual risks with the following symbol:

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

CE CONFORMITY

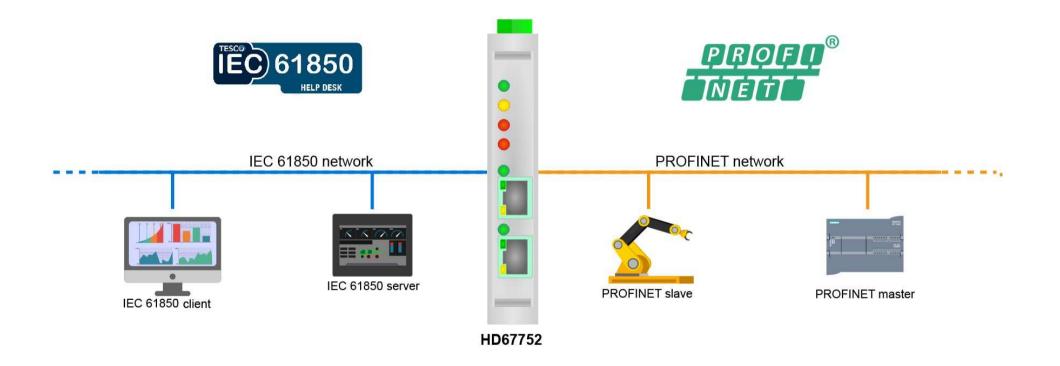
The declaration is made by our company. You can send an email to <u>support@adfweb.com</u> or give us a call if you need it.



EXAMPLES OF CONNECTION:

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CONNECTION SCHEME:

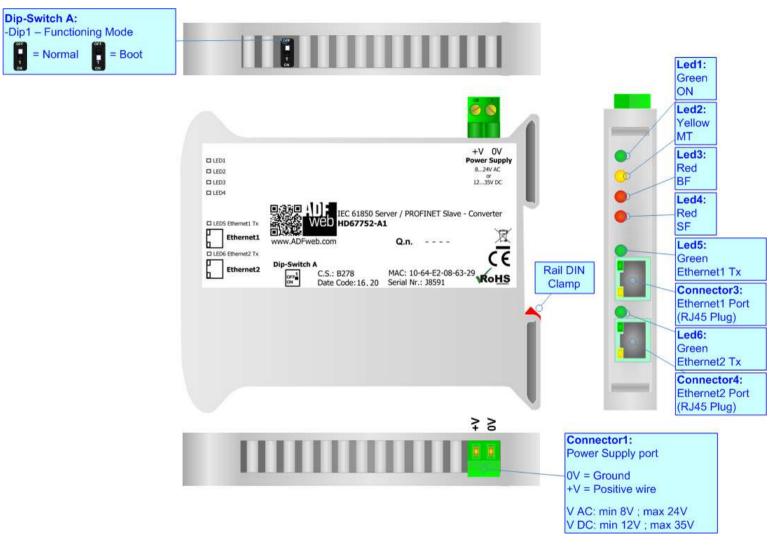


Figure 1: Connection scheme for HD67752-A1



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CHARACTERISTICS:

The HD67752-A1 is IEC 61850 Server / PROFINET Slave - Converter.

It allows for the following characteristics:

- Isolation between Ethernet Power Supply;
- ➡ Two-directional information between IEC 61850 bus and PROFINET 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 SW67752 software on your PC in order to perform the following:

- Define the parameters of IEC 61850 line;
- Define the parameters of PROFINET line;
- Define IEC 61850 variables that contains the data to read from PROFINET side;
- Define IEC 61850 variables that contains the data to write from PROFINET side;
- Update the device.

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POWER SUPPLY:

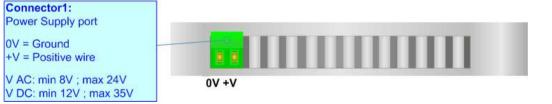
The devices can be powered at 8...24V AC and 12...35V DC. For more details see the two tables below.

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

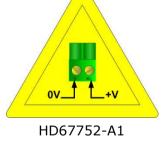
Consumption at 24V DC:

Device	Consumption [W/VA]
HD67752-A1	3.5

Caution: Do not reverse the polarity power









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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.





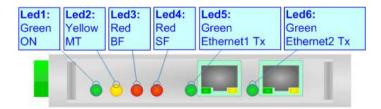
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LEDS:

The device has got six 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				
2: MT [maintenance display]	ON: Maintenance Problem is present	Blinks quickly: Boot state				
(yellow)	OFF: No maintenance are present	Blinks very slowly (~0.5Hz): update in progress				
3: BF [bus fault] (red)	ON: The Ethernet connection is defective; the IP address exists several times in the network; the own NameOfStation exists several times in the network; no IP address has been set	Blinks quickly: Boot state				
	Flashing: At least one configured AR is no longer in the data exchange	Blinks very slowly (~0.5Hz): update in progress				
	OFF: No errors are present					
4. SE [group orror] (rod)	ON: At least one AR is not in the data exchange	Blinks quickly: Boot state				
4: SF [group error] (red)	OFF: No errors are present	Blinks very slowly (~0.5Hz): update in progress				
F. Ethomosti Ty (anoon)	Diske when is transmitting Ethernet, frames	Blinks quickly: Boot state				
5: Ethernet1 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress				
	Diske when is transmitting Ethernet, frames	Blinks quickly: Boot state				
6: Ethernet2 Tx (green)	Blinks when is transmitting Ethernet frames	Blinks very slowly (~0.5Hz): update in progress				



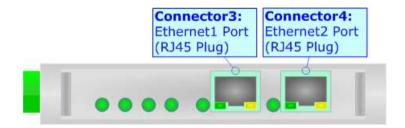


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ETHERNET:

IEC 61850 connection, PROFINET connection and the updating of the converters must be made using Connector3 and/or Connector4 of the HD67752-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 SW67752:

To configure the Converter, use the available software that runs with Windows called SW67752. 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 SW67752, the window below appears (Fig. 2).



It is necessary to have installed .Net Framework 4.

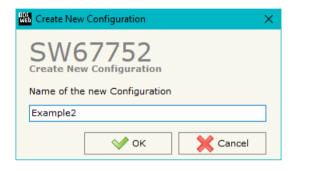
Web ADFweb.	com - Configurator SW67752 - IEC61850 Server / PROFINET	×
	67752 Server / PROFINET - Converter	
Begin	Opened Configuration of the Converter : Example1	
Step 1	New Configuration	
Step 2	Set Communication	
Step 3	IEC61850 Access	
Step 4	TLS Known Certificate	
Step 5	PROFINET XML	
Step 6	Vpdate Device UDP	www.ADFweb.com

Figure 2: Main window for SW67752



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 "IEC 61850 Server / PROFINET 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".

🚻 Open Configuration	-		×
SW67752 Open an Existing Configuration List of Avaliable Configurations			
Example1 Example2			
Example3			
💉 ок		Cance	el

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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.

Web Software Options

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

Language	Connection Options	Software Settings	
Selected	Language :		
	English		
		Page 1 / 1	
	ок 🖌 🗶 с	ancel	

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 SW67752 checks automatically if there are updatings when it is launched.

Software Options	×								
SW67752 Software Options									
Language Connection Options Software Settings									
Enable Internet Connection Check Software Update at Start of Program									
Check Available Update									
OK X Cancel									

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Software Options	×
SW67752 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	
OK X Cancel	

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



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SET COMMUNICATION:

This section defines the fundamental communication parameter of two buses, PROFINET and IEC 61850.

By pressing the "**Set Communication**" button from the main window of SW67752 (Fig. 2) the window "Set Communication" appears (Fig. 3).

The means of the fields for "IEC61850 Server" are:

- In the field "Port" the port number used for IEC 61850 communication is defined;
- ✤ If the field "Password" the password used for accessing to IEC 61850 variables is defined.

The means of the fields for "TLS Server" are:

- If the field "Enable TLS" is checked, the TLS protocol for secure connection is enabled;
- In the field "Key" the key for the authentication is defined;
- In the field "Key Password" the password for decrypting the key is defined;
- In the field "Server Certificate" the certificate for the server is defined;
- In the field "Root Certificate" the root of the server is defined;
- If the field "Enable Only Known Certificates" is checked, the converter will accept just connection from known Clients (defined in the section "TLS Known Certificate").

Web Set Communication		\times					
SW67752 Set Communication Settin	g						
1. IEC61850 Server							
Port	102]					
Password	1234]					
2. TLS (Transport L	ayer Security) Server	Ξ					
Enable TLS							
Кеу	key]					
Key Password	keypassword]					
Server Certificate	lalala]					
Root Certificate	dadada						
Enable Only Known Certifi	cates						
3. PROFINET		Ξ					
IP Address	192 .168 .0 .5]					
SubNet Mask	255 .255 .255 .0]					
Gateway	192 .168 .0 .1]					
Tunneling Port	2000]					
Name of Station	devicename1]					
Number Bytes Input	1438]					
Number Bytes Output 1438							
Diagnostic	0]					
	OK X Cancel						

Figure 3: "Set Communication" window



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The means of the fields for "PROFINET" 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;
- + In the field "Name of Station" the name of the PROFINET node is defined;
- ✤ In the fields "Number Byte IN" the number of input byte of the converter is defined;
- ✤ In the fields "Number Byte Out" the number of output byte of the converter is defined.



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IEC 61850 ACCESS:

By Pressing the "**IEC 61850 Access**" button from the main window for SW67752 (Fig. 2) the window "Set Variables Access for IEC 61850" appears (Fig. 4).

This section is used to define the IEC 61850 variables accessible from serial side.

WEB S	et Variable	s Access for IEC61850										—	×
Set	W6 Variable	7752 es Access for IEC61850											
Ν	Enable	Name	Туре	Length	Read Only	Position	Start Bit	Conversion	Molt. Factor	Swap	Swap Word	Mnemonic	^
1		First	Float	4		0	0	None	none				
2		Second	Int	4		4	0	None	none				
3		Third	Int	4		8	0	None	none				
4													
5													 ~
	S S												

Figure 4: "IEC 61850 Access" window

The means of the fields are:

- If the field "Enable" is checked, the IEC 61850 variable is enabled;
- In the field "Name" the name of the IEC 61850 variable is defined;
- In the field "Type" the data format of the IEC 61850 variable is defined;
- ✤ If the field "Read Only" is checked, the IEC 61850 variable is just in reading. Otherwise, it is writeable too;
- In the field "Position" the starting byte of the PROFINET arrays from/to which taking/mapping the data is defined;
- In the field "Start Bit" the starting bit of the byte of the field "Position" is defined;
- In the field "Conversion" the conversion of the data is defined. This option is used to convert the data format between PROFINET and IEC 61850;
- In the field "Molt. Factor" a multiplicative factor of the value is defined;
- In the field "Mnemonic" a description of the variable is defined.



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TLS KNOWN CERTIFICATE:

🛗 Definition the list of Known Certificates - 🗆 🗙						
		7752 he list of Known Certificates				
N	Enable	Certificate	Mnemonic	^		
1		First Certificate bla bla				
2						
3				~		
	Ok	Cancel	Paste Row	-		

Figure 5: "TLS Known Certificate" window

By pressing the "**TLS Known Certificate**" button from the Main Window of SW67752 (Fig. 2) the "Definition the list of Known Certificates" window appears (Fig. 5).

The data of the columns have the following meanings:

- ✤ If the field "Enable" is checked, the TLS certificate is allowed;
- ✤ In the field "Certificate" the certificate of the Client is defined;
- ✤ In the field "Mnemonic" a description is defined.



PROFINET XML:

By Pressing the "**PROFINET XML**" button from the main window for SW67752 (Fig. 2) it is possible to generate the xml file to be imported into the master PROFINET.

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ROFINET XML File Name		×				
SW67752 Create the PROFINET XML GSD File						
Select the PROFINET XML File	e Name					
Fixed Part	User Part	Fixed Part				
GSDML-V2.31-ADFweb-HD67752 hd67752 -20200417.xm						
🗸 ок	Cancel					

Figure 6: "PROFINET XML File Name" window



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)	×
SW67752 Update Device Using the Ethernet Port	
Insert the IP Address of Device	

205

Firmware	irmware + Configuration							
Read Back	Read Back							
Cano	cel 🔶 Execute Update Firmware							
	web.com - SW67752 Ethernet Update	×						
INIT	INIT : Waiting							
FIRM	FIRMWARE : Waiting							
PRO	PROJECT : Waiting							

Figure 7: "Update device" windows

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168

Select Update Options

2

192

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Note:

When you receive the device, for the first time, you also have to update the Firmware in the HD67752 device.

<u>Warning:</u>

If Fig. 8 appears when you try to do the Update try these points before seeking assistance:

- Try to repeat the operations for the updating;
- Try with another PC;
- Try to restart the PC;
- Check the LAN settings;
- If you are using the program inside a Virtual Machine, try to use in the main Operating System;
- If you are using Windows Seven, Vista, 8 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.

Warning:

In the case of HD67752 you have to use the software "SW67752": <u>www.adfweb.com\download\filefold\SW67752.zip</u>.

ADFweb.com - SW67752 Ethernet Update	×
INIT : Device Not Found	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	
ADFweb.com - SW67752 Ethernet Update	×
INIT : PROTECTION	Ver. 1.602
FIRMWARE : Waiting	
PROJECT : Waiting	

Figure 8: "Error" window

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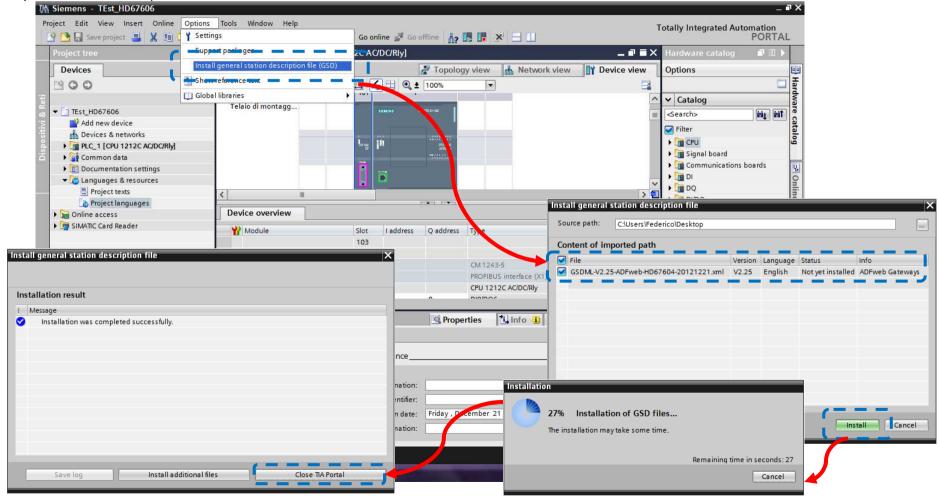
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PLC CONFIGURATION:

The configuration and commissioning of the PROFINET Converter as described on the following pages was accomplished with the help of the TIA Portal software by Siemens. In the case of using a control system from another supplier, refer to attend to the associated documentation.

These are the steps to follow:

1) Install the description file of the module.



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2) Import the module in the network; connect the device to the PLC network and edit the parameters of IP, station name etc.

🔄 🗳 🕒 🖬	it View Insert Online Options Saveproject 🎩 🐰 🏥 🗊 🗙 🕊	•± (** 🖬 🖥 🖽 [ffline 🎝? 🖪 🖪 🗶				PORTAL
Project	tree 🛛	 Guide Devices 8 	& networks			💶 🖬 🖬 🗙 Hardwa	are catalog	
Devic	es			📲 Topology view	/ 🚠 Network view	Device view Option	5	
M Siemens - Guide						_ P	×	Hardware
<u>Project E</u> dit <u>V</u> iew Insert <u>O</u> nline Optio <u>n</u> s	<u>T</u> ools <u>W</u> indow <u>H</u> elp				Totallu	Integrated Automation	a	rdw
📑 📴 🔒 Save project 🔳 🐰 🏥 🚡 🗙 🄊	: C' : 🖬 🖥 🗉 🖬 🖉 🤌	Go online 🖉 Go offline			Totally	PORTAL	9	MI MI
Project tree 🔲 🕻	Guide > Devices & networks					_ # # X	4	catalog
Devices				🛃 Topolo	gy view 🔒 Network	and the second se	Drives	alog
					gy view metwork	1	⊑ Gateway	
	Network Connections S7 c	onnection	🖥 🛄 🍳 ± 100% 🔹				🚺 Siemens AG	y,
					4 IO system: PLC_1.	PROFINET IO-System (100)	ADFweb.com	I Online tools
€ Guide							• 🚺 HD67078	
Add new device	PLC_1	ERIAL					• 🛅 HD6707882	et
PLC_1 [CPU 1212C AC/DC/Rly]		AN DP-1	NORM				• 🛅 HD67602	ol
Common data		LC_1					• 🛅 HD67603	
Documentation settings		1					• 🚺 HD67604	
Languages & resources							• 🛅 HD67604a1	
Canguages a resources Online access	PLC_1.PROF	NET IO-Syste				~	• 🛅 HD67605	as
SIMATIC Card Reader	<					× > •	▼ HD67606	™ Tasks
i Cy Silvine Cola Reader			Pre-1 (1991)				CAN	
	Network overview Conne	ections					 HD67609-A1 	D Librarie
	Provice Vice	Туре	Address in subnet Subnet	Master system	Comment		+ 1067679	V iii
	 SIMATIC 1200 station_1 	SIMATIC 1200 station					ation	arie
	▶ PLC_1	CPU 1212C AC/DC/Rly						× 80
		GSD device		7		1	HD67606-A1	
	► SERIAL	CAN						
	IF1			Q Prop	erties 🚺 Info 🕦 🧏	Disgnastics	GSDML-V2.25-ADFWE	
						Diagnosocs	1:	
	General							
	A CONTRACTOR AND A	P protocol				~ '	N Adapter	
	Ethernet addres	(Set IP address in the project				11- No.	\sim
	Advanced options		IP address: 192 . 168 .	2 .189		=	de opened.	
	Ĥ		Subnet mask: 255 . 255 .					
	•		Use IP router	AND COL				
				1				
N Detaile stars		63	Router address: 0 . 0 .	100 000 000 000 000 000 000 000 000 000				
Details view		() Set IP address using a different m	ethod		×		
Portal view Dverview	Devices & ne				💙 Project Guide op	ened.		



8

3) Load the configuration into the PLC.

xtended download to	o device					×				
	Configured access	nodes of "PLC 1"								
	Device	Device type	Туре	Address	Subnet					
	PLC_1	CPU 1212C AC/D		192.168.2.50	PN/IE_1					
	CM 1243-5	CM 1243-5	PROFIBUS	2	1.00-1.					
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-						
	Accessible devices Device PLC_1		Туре	serface: Droadcor subnet: PN/IE_1 iteway:						
	-		PN/IE	Access address	-	Load	previev			
G Flash LED							s !	before loading Target ▼ PLC_1	Message Ready for loading.	Action
	-				<u>B</u> e	fresh	0	Stop modules	All modules will be stopped for downloading to device.	Stop all
Online status information:								Device configurati	Delete and replace system data in target	Download to device
Connected to addre	ess 192.168.2.50					^		r beriee comigatati	. Selete and replace system and in anget	bounda to device
Scanning ended.						 • 	0	 Software 	Download software to device	Consistent download
					10		0	Additional inform	There are differences between the settings for the project a	ind the se 🗹 Overwrite all
					<u>L</u> oad <u>C</u>	ancel				
										Refresh
									Finish	Load Cancel

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MECHANICAL DIMENSIONS:

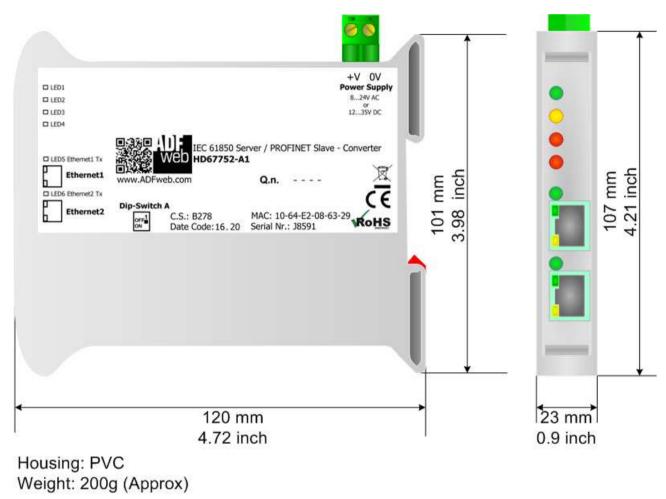


Figure 9: Mechanical dimensions scheme for HD67752-A1



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ORDERING INFORMATIONS:

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

HD67752 – xx



Order Code: HD67752-A1 -	IEC 61850 Server	/ PROFINET Slave - Converter
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ACCESSORIES:

Order Code: AC34011	-	35mm Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V DC
Order Code: AC34012	-	35mm Rail DIN - Power Supply 220/240V AC 50/60Hz – 24 V DC



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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

C The product conforms with the essential requirements of the applicable EC directives.



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.



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