

User Manual

Revision 1.400 English

Converter / Adapter Ethernet to RS232 / RS485

(Order Code: HD67038-2 HD67038-2-M HD67038-25 HD67038-25-M)

for Website information:

www.adfweb.com?Product=HD67038-2 www.adfweb.com?Product=HD67038-2-M www.adfweb.com?Product=HD67038-25 www.adfweb.com?Product=HD67038-25-M

for Price information: www.adfweb.com?Price=HD67038-2 www.adfweb.com?Price=HD67038-2-M www.adfweb.com?Price=HD67038-25 www.adfweb.com?Price=HD67038-25-M

Benefits and Main Features:

- Galvanic isolation between Ethernet and RS232
- Protocol independent
- Suitable for supervision software
- SCADA/HMI and the connection to a Personal Computer
- Automated control of the line directions.
- Easy to use software configuration.
- Temperature range -30°C to 70°C;

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REVISION LIST:

Revision	Date	Author	Chapter	Description
1.000	20/10/2008	FI	All	First release version
1.100	02/07/2009	MI	All	Revision
1.200	06/07/2010	FT	All	Revision
1.300	31/03/2011	Dp	All	Revision
1.400	28/03/2012	Dp	All	Revision

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Figure 1: Connection scheme for HD67038-2

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Figure 2: Connection scheme for HD67038-2-M

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Figure 3: Connection scheme for HD67038-25

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Figure 4: Connection scheme for HD67038-25-M

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CHARACTERISTICS:

Ethernet to RS232/RS485 is a professional device for using COM port through Ethernet line. The Converter allows the following characteristics:

- Galvanic isolation between Ethernet and RS232 / RS485;
- Rail DIN mountable;
- Auto-sensing Ethernet 10/100;
- Baud Rate and Parity changeable with software;
- > Possible Baud Rates: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps;
- Fixed Stop bit (1);
- Temperature range -30°C to 70°C;
- ➢ EMS EN 61000-6-2.

POWER SUPPLY:

Recommended Power Supply	
VDC	VAC
24v	12v

V	DC	V	AC
Vmin	Vmax	Vmin	Vmax
8v	35v	8v	19v

Caution: Not reverse the polarity power.



HD67038-2 HD67038-25



HD67038-2-M

HD67038-25-M





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CONFIGURATION:

This device allows the following configurations:

- Remote COM Port;
- > Tunnel Point to Point (Ethernet bridge for a serial line);
- > Tunnel Point to Multipoint.

USE OF COMPOSITOR SW67038:

To configure the Converter use the available software that runs with Windows, called SW67038. It is downloadable on the site www.adfweb.com and its operation is described in this document.

When launching the SW67038 the right window appears (Fig. 5).

ADFweb.com	Compositor SW67038 Ethernet to R5485/R5232 : \Exam	nple1
Step 1	Mew project Cpen project	i ×
Step 2	General Parameter	
Step 3	Update Via TCP Update Via Serial	www.ADFweb.com

Figure 5: Main window for SW67038



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GENERAL PARAMETER:

By Pressing the "General Parameter" button from the main window for SW67038 (Fig. 5), the window "General Parameter" appears.

This window is divided in three sections: in the first you can select the Operating Modality, the second is used to configure the Ethernet and the last to configure the Serial line.

In the section "Operating Modality" it is possible to select the function mode of the Converter from these options:

- Remote COM Port;
- > Tunnel Point to Point;
- > Tunnel Point to Multipoint.

These operating modalities are described in the following pages.



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OPERATING MODALITY: REMOTE COM PORT

It consists of a configuration in which the device is generally controlled by a PC that is connected using the TCP protocol line on the 10001 port. It writes bytes that automatically are sent on the serial line and each byte read from the serial port is transmitted through the line to the connected PC.

The means of the fields for "Ethernet Configuration" 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 "Port" the Port of the Converter is defined;
- If the field "Use Gateway" is checked, in the field below it is possible to insert the IP Address of the gateway used for going out to the net in the field under;
- In the field "Socket Disconnect TimeOut (S)" enter a time in seconds. If no data pass through the socket for the seconds defined, the socket disconnects.

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- > In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.
- If select the "Enable Change baudrate on the fly" is possible to change the baudrate and parity from the Ethernet (see Change Baudrate and Parity On The Fly chapter for more info).
- > In the field "Port" the port to change baudrate and parity is defined.

General Parameter	
Operating Modality]
💿 Remote COM Port	
O Tunnel Point to Point	
O Tunnel Point to Multipoint	
Ethernet Configuration	
IP Address 192 .168 .0 .10	Port 10001
SubNet Mask 255 . 255 . 255 . 0	Use Gateway 192 . 168 . 0 . 1
Socket Disconnect TimeOut (S)	0
C Serial Configuration	
• RS485	○ RS232
BaudRate	Parity
115200	None 🗸
Enable change baudrate on th	e fly Port 10002
ACTIVE SERIAL DRIVER	OK Cancel

Figure 6: "General Parameter" window (Remote COM Port)

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.



A mode that allows for the extension of a serial line using a Ethernet Network. The two devices in this mode must be configured in a coherent way between each one, or in such a way that both read the IP address of the other one.

It is necessary to insert the IP address of the remote device in addition to the set-up of the device's line.

The means of the fields for "Ethernet Configuration" 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 "Port" the Port of the Converter is defined;
- In the field "Remote IP" the IP of the second device connected to the same line is defined;
- In the fields "TCP" and "UDP" the protocol of the communication is defined;
- In the field "Force socket TCP open" is defined if the socket TCP try to connect to start up;
- If the field "Use Gateway" is checked, in the field below it is possible to insert the IP Address of the gateway used for going out to the net in the field under;

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.

General Parameter	
Operating Modality	
🔿 Remote COM Port	
 Tunnel Point to Point 	
O Tunnel Point to Multipoint	
C Ethernet Configuration	
IP Address 192 .168 .0 .10	Port 10001
SubNet Mask 255 . 255 . 255 . 0	Remote IP 192 .168 .0 .11
⊙ TCP O UDP	▼ Force socket TCP open
Use Gateway 192 . 168 . 2 . 1	
Serial Configuration	
⊙ RS485	○ RS232
BaudRate	Parity
115200	None
ACTIVE SERIAL DRIVER	OK Cancel

Figure 7: "General Parameter" window (Tunnel Point to Point)

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.

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OPERATING MODALITY: TUNNEL POINT TO MULTIPOINT WITH BROADCAST (MASTER SIDE)

This mode allows a serial line to be extended into sections, using a LAN line, where the device is on the side of the one that controls the line as Master and the others that are on the client's side.

To configure a device as Master the field "Master Side" of "Operating Modality" section must be checked.

In the case of the master, it isn't necessary to provide any other IP address because the packets are sent in broadcast.

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

- Select the "Work with Broadcast", in this way the master sends the messages in Broadcast;
- > 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 "Port" the Port of the Converter is defined.

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.

General Parameter	
Operating Modality	
○ Remote COM Port	
O Tunnel Point to Point	
• Tunnel Point to Multipoint	🔽 Master Side
C Ethernet Configuration	
💿 Work with Broadcast	🔘 Work with Keep Alive
IP Address	Port
192 . 168 . 0 . 10	10001
SubNet Mask 255 , 255 , 255 , 0	
Serial Configuration	
⊙ RS485	○RS232
BaudRate	Parity
115200 🗸	None
ACTIVE SERIAL DRIVER	OK Cancel

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.

Figure 8: "General Parameter" window (Tunnel Point to Multipoint Master Side)

OPERATING MODALITY: TUNNEL POINT TO MULTIPOINT WITH BROADCAST (SLAVE SIDE)

To configure a device as Slave the field "Master Side" of "Operating Modality" section must not be checked.

In the case of the slave it is necessary to provide the IP address of the Master Converter.

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

- Select the "Work with Broadcast", in this way the master sends the messages in Broadcast;
- > 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 "Port" the Port of the Converter is defined;
- In the field "Master IP" the IP address of the Master Converter is defined.

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.

General Parameter	
Operating Modality]
O Remote COM Port	
O Tunnel Point to Point	
Tunnel Point to Multipoint	🔲 Master Side
C Ethernet Configuration	
 Work with Broadcast 	🔘 Work with Keep Alive
IP Address	Port
192 . 168 . 0 . 11	10001
SubNet Mask	Master IP
255 , 255 , 255 , 0	192 168 0 10
⊂ Serial Configuration ————————————————————————————————————	
	○RS232
BaudRate	Parity
115200	None 💌
ACTIVE SERIAL DRIVER	OK Cancel

Figure 9: "General Parameter" window (Tunnel Point to Multipoint Slave Side)

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OPERATING MODALITY: TUNNEL POINT TO MULTIPOINT WITH KEEP ALIVE (MASTER SIDE)

This mode allows a serial line to be extended into sections, using a LAN line, where the device is on the side of the one that controls the line as Master and the others that are on the client's side.

To configure a device as Master the field "Master Side" of "Operating Modality" section must be checked.

In the case of the master receive the messages of "Keep Alive" from the slaves presents in the network and send the data to that devices.

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

- Select the "Work with Keep Alive", in this way the master sends the messages to all the devices that send the "Keep Alive" messages;
- > 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 "Port" the Port of the Converter is defined.
- In the field "TimeOut Keep Alive (S)" the maximum time Master device waits to consider a slave no more available.
- > In the field "Keep Alive Port" the Port of Keep Alive is defined.
- If the field "Use Gateway" is checked, in the field below it is possible to insert the IP Address of the gateway used for going out to the net in the field under;

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- > In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.

Operating Medality	
Operating Modality	
🔘 Remote COM Port	
🔘 Tunnel Point to Point	
⊙ Tunnel Point to Multipoint	🔽 Master Side
Ethernet Configuration	
🔘 Work with Broadcast	💿 Work with Keep Alive
IP Address	Port
192 . 168 . 0 . 10	10001
SubNet Mask 255 , 255 , 255 , 0	
TimeOut Keen Alive (S)	10
Keen Alive Port	10002
192 168 2 1	
Serial Configuration	
	○ RS232
BaudRate	Parity
115200	None 🔽
	[
ACTIVE SERIAL DRIVER	🛛 🖌 OK 🔤 🕺 Cano

Figure 10: "General Parameter" window (Tunnel Point to Multipoint Master Side)

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.

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OPERATING MODALITY: TUNNEL POINT TO MULTIPOINT WITH KEEP ALIVE (SLAVE SIDE)

To configure a device as Slave the field "Master Side" of "Operating Modality" section must not be checked.

In the case of the slave it is necessary to provide the IP address of the Master Converter.

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

- Select the "Work with Keep Alive", in this way the master sends the messages to all the devices that send the "Keep Alive" messages;
- Select the "Work with Broadcast", in this way the master sends the messages in Broadcast;
- > 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 "Port" the Port of the Converter is defined;
- > In the field "Master IP" the IP address of the Master Converter is defined;
- In the field "Keep Alice every (S)" the Time beetwen the "Keep Alive" messages is defined;
- > In the field "Keep Alive Port" the Port of Keep Alive is defined;
- If the field "Use Gateway" is checked, in the field below it is possible to insert the IP Address of the gateway used for going out to the net in the field under;

The means of the fields for "Serial Configuration" are:

- If you are using HD67038-2 or HD67038-2-M Converter, the field "RS232" must be checked; instead if you are using HD67038-25 or HD67038-25-M Converter, if the field "RS485" is checked the serial line in use is the RS485 otherwise is the RS232;
- > In the field "BaudRate" the velocity of the serial line in use is defined;
- > In the field "Parity" the parity of the serial line in use is defined.

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Operating Modality	
🚫 Remote COM Port	
🔘 Tunnel Point to Point	
Tunnel Point to Multipoint	🥅 Master Side
Ethernet Configuration	
🔘 Work with Broadcast	💿 Work with Keep Alive
IP Address	Port
192 . 168 . 0 . 11	10001
SubNet Mask	Master IP
255 255 255 0	192 . 168 . 0 . 10
Keep Alive every (S)	1
Keen Alive Port	10002
192,168,2,1	
- Serial Configuration	
	○ RS232
BaudRate	Parity
115200	None
ACTIVE SERIAL DRIVER	OK X Cancel

The button "ACTIVE SERIAL DRIVER" is used to activate the "Serial to Ethernet Connector". For more details go to page 17.

Figure 11: "General Parameter" window (Tunnel Point to Multipoint Slave Side)



UPDATE VIA TCP:

Section "Update Via TCP" (Fig. 10):

In order to load the parameters or update the firmware in the gateway, follow these instructions:

- Connect the Ethernet cable to the gateway;
- Insert the IP address of the Converter;
- > Press the "Ping" button for check the connection of the Converter;
- Press the "Next" button;
- Select the operations you want to do. You can select only "Firmware", only "Project" or both of them;
- > Press the "Execute update firmware" button to start the upload.

When all the operations are ``OK'' the configuration/firmware on the device is correctly updated.

	Update Firmware from Etherner (TCP)			
are in the gateway,	Insert the IP Address of HD67038			
	192 . 168 . 2 . 140			
	Check the Connection of HD67038			
on of the Converter;	Ping			
select only "Firmware",	Cancel Next 🖙			
o start the upload.				
rmware on the device is	Update Firmware from Etherner (TCP)			
	Update Device Options			
	Firmware			
	Project Read Project when finish			
	Execute update firmware			
SW67038 TCP Update				
	INIT : Waiting	Ver. 1.001		
	FIRMWARE : Waiting			
	PROJECT : Waiting			
Figure 12: "Update Via TC	P" windows			

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UPDATE VIA SERIAL:

Section "Update Via Serial" (Fig. 11):

In order to load the parameters or update the firmware in the gateway, follow these instructions:

- Turn OFF the device;
- Connect the Null Modem cable from your PC to the gateway;
- Insert the Boot Jumper (For more info see the "Connection scheme" of the Converter);
- > Turn ON the device;
- Check the "BOOT Led". It must blink quickly (more info see the "Connection scheme" of the Converter);
- Select the COM port and press the "Connect" button;
- Press the "Next" button;
- Select the operations you want to do. You can select only "Firmware", only "Project" or both of them;
- Press the "Execute update firmware" button to start the upload;
- > When all the operations are "OK" turn OFF the device;
- Disconnect the Boot Jumper;
- Turn ON the device.

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

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Update Firmware from Serial (RS232)

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Follow this step to update the HD67038 from RS232:

-

- 1 Turn OFF the Device
- 2 Connect the RS232 cable
- 3 Select the COM port and press the connect button

Next 🗊

Connect

4	-	Turn	ON	the	Device

COM1

X Cancel

5 - Check the BOOT led. It must blink quickly

Update Firmware from Serial (RS232)	Þ
Update Device Options	
🗹 Firmware	
🗹 Read Firmware when finish	
🗹 Project	
🗹 Read Project when finish	
Execute undate firmware	



Figure 13: "Update Via Serial" windows



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SOME EXAMPLES:







Figure 14: Some examples

Equivalent Layout:

Master Slave

With RS485 Line

Connection



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CHARACTERISTICS OF THE CABLES:

ETHERNET:

The connection with the Ethernet socket must be done with a Ethernet Cable with a RJ45 Plug.

RS232:

The connection from RS232 socket to a serial port (example one from a personal computer) must be made with a Null Modem cable (a serial cable where the pins 2 and 3 are crossed).

It is recommended that the RS232C Cable not exceed 15 meters.



Figure 15: Null modem cabling

RS485:

The connection with the RS485 socket must be done with a twisted and shielded cable.



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ACTIVE SERIAL DRIVER:

Before pressing the "Active Serial Driver" button from the "General Parameter" window it is necessary to download the "Serial to Ethernet Connector" software from the following link: <u>www.adfweb.com/download/filefold/serial ethernet connector.zip</u>. After the installation of the software you have to enter in the SW67038, go into the "General Parameter" section and press the "ACTIVE SERIAL DRIVER" button. At this point it is possible to configure the virtual COM port following these steps:

Go in the "Type" Section.	🖳 Serial to Ethernet Connector 5.0 by Eltima Software _ 🗙					
Step 1 – Active the Advanced Mode:	Edit 🙀 Delete 🙀 Delete all	Create mirror Relp -	Step 1			
Step 2 – Active the Client Mode;	Serial to Ethernet Connector	Greate connection 2 Edit connection	~			
Step 3 – Select the COM port to		COM10 [Client] Create connection				
use with the device. It is better if you use a COM port that does not exist in your system;		Select connection type you want to create				
Step 4 – Insert the IP Address		Share serial port for incoming connections (Server)	Step 2			
and the Port of the Device and		Ocnnect serial port to remote host (Client)				
Stop F Check that the ID and		◯ Share serial port using UDP	Stop 2			
the Port are correct.		Select port type you want to create	Step 5			
		Select Serial Port: COM10				
		Strict baudrate emulation				
		Remote IP/Host name: 192.168.0.10 : 10001 Add . 3				
		Use a different port to receive data: 6001	Step 4			
		IP address Port NOTE: If you choose 2 and more IP's TELNET protocol will be unavailable! 192.168.0.10 10001 Image: Second secon				
	Activity log					
	Figure 16: "Type" window	Step 5				



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Figure 17: "Connection prefs" window



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CHANGE BAUDRATE AND PARITY ON THE FLY:

Enable the option "Enable change baudrate on the fly" in the modality "Remote COM Port" is possible to change the baudrate and the parity of the serial port by sending a TCp frame into the post selected "Port". The new baudrate and parity is saved in RAM so when you turn off the device you lost these parameter and the device start always with the default value.

You can use this modality only in the "Remote COM port" modality.

The packet to send for change these parameters is:

BAUD=<baud value>;PARITY=<parity value>;

The admited value for Baudrate are; 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200

The Admited value for Parity are:

- N (= None)
- O (= Odd)
- E (= Even)

Example. To set the Baudrate at 115200 and Odd parity you have to send, In ASCII: BAUD=115200;PARITY=0;

In exadecimal: [42][41][55][44][3D][31][31][35][32][30][30][3B][50][41][52][49][54][59][3D][4F][3B]



MECHANICAL DIMENSIONS:



Figure 18: Mechanical dimensions scheme for HD67038-2



Figure 20: Mechanical dimensions scheme for HD67038-25

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Housing: PVC Weight: 200g (Approx) Figure 19: Mechanical dimensions scheme for HD67038-2-M



Figure 21: Mechanical dimensions scheme for HD67038-25-M



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ORDER CODE:

Order Code:	HD67038-2	-	Converter – Ethernet to RS232
Order Code:	HD67038-2-M	-	Converter – Ethernet to RS232 (Different enclosure)
Order Code:	HD67038-25	-	Converter – Ethernet to RS232 / RS485
Order Code:	HD67038-25-M	-	Converter – Ethernet to RS232 / RS485 (Different enclosure)

ACCESSORIES:

Order Code:	AC34001	-	Rail DIN - Power Supply 220/240V AC 50/60Hz - 12 V AC
Order Code:	AC34002	-	Rail DIN - Power Supply 110V AC 50/60Hz - 12 V AC
Order Code:	AC34104	-	European Input - Power Supply 230V AC 50Hz - 12 V DC



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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:

- 1) 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.
- 2) 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.

PRODUCTS AND RELATED DOCUMENTS:

Part	Description	URL
HD67118	Converter RS232 to RS485 Isolated	www.adfweb.com?Product=HD67118
HD67119	Converter USB 2.0 to RS485 Isolated	www.adfweb.com?Product=HD67119
HD67507	Gateway Modbus TCP Server to RTU Master	www.adfweb.com?Product=HD67507
HD67510	Gateway Modbus TCP Client to RTU Slave	www.adfweb.com?Product=HD67510