



Installation Guide

IG 022 / Rev. 1.1

eWON COSY 131

This installation guide describes the hardware of the eWON COSY 131 and explains how to get started with the embedded web site.



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1. Product Summary

1.1. Introduction

The present Installation Guide describes the hardware of the **eWON COSY 131** family.

The eWON Cosy 131 family is a set of 3 industrial gateways/routers.

The eWON Cosy 131 is fully compatible with the Talk2M cloud connectivity services (<u>www.talk2M.com</u>).

1.2. Concept of the eWON COSY 131 Family

The Cosy 131 is available in 3 different versions depending on their communication interface:

- Ethernet Switch
 Cosy 131 Ethernet
- WiFi & Ethernet Switch Cosy 131 WiFi
- 3G+ & Ethernet Switch Cosy 131 Cellular 3G+

1.3. General specification of the hardware platform

Characteristic	Value
Design	Industrial design (24 VDC power supply, DIN Rail mounting, extended temperature)
Processor	ARM9
Clock	Backed up real time clock (RTC) Backup battery lifetime has 10 years expectancy
Ethernet Interface	LAN Ethernet port 10/100 Mbps
Digital Input	2
Digital Output	1
Mounting	Latch for DIN rail EN50022-compliant

1.4. Typical applications

- Remote Access of Ethernet devices using Talk2M connection
- Industrial VPN router



1.5. Type and Part Numbers

The available part numbers are:

Part Number	Туре	Description
EC61330_00MA	COSY 131	LAN/WAN – Ethernet Only Switch 4-Ports
EC6133C_00MA	COSY 131	LAN/WAN, WIFI – Ethernet Switch + WiFi
EC6133D_00MA	COSY 131	LAN/WAN -3G+ Penta - Ethernet Switch + 3G+

Table: List of the available part numbers

- Note -

The MA suffix means Multiple languages A (ENG, FR, DE, SP)

The part number syntax is explained in <u>3.1. Label</u>



Chapter 2 Safety, Environmental & Regulatory Information

2. Safety, Environmental & Regulatory Information

2.1. Scope

The present heading addresses Safety, Environmental & Regulatory Information for the eWON Cosy 131 family.

2.2. Power supply

The external power supply is a third party device that is not part of this certification.

The device shall be supplied by a LPS power supply certified according to IEC/UL60950-1 or Class 2 per NEC (See annex <u>A.2. Specification of the External Power Supply</u> for detailed information).

2.3. Applicable Directives, Standards and Compliance

The product described in the present Installation Guide complies with the CE, R&TTE directives and the FCC regulations related to the wireless modems.

The product described in the present Installation Guide belongs to class A Information Technology Equipment (ITE). In a domestic environment this product may cause radio interference in which case the user may be required to take appropriate measures.

2.3.1. Applicable European Directives

The product described in the present Installation Guide is in conformity with the following EC directives:

- RoHS Directive 2011/65/EU
- EMC Directive 2004/108/EC
- R&TTE Directive 1999/5/EC (for versions includind RF modems) The product conforms to the corresponding R&TTE articles: RF spectrum efficiency (Art 3.2); EMC (Art. 3.1b); Safety (Art. 3.1a)
- REACH Directive 2006/121/EC
- For COSY 131, Cellular 3G+ only: to complies with R&TTE directive
 - Antenna must be mounted on a grounded plate

• RFI suppressors must be mounted on the power supply cable in the following order, starting at 3cm of the connector and going to the power supply:

- Wurth Elecktronik 742-717-33
- Wurth Elecktronik 742-716-22
- Wurth Elecktronik 742-711-11



Chapter 2

Safety, Environmental & Regulatory Information

2.3.2. Applicable Safety Standards

The product described in the present Installation Guide is in conformity with the following safety standards:

- IEC/EN 60950-1
- UL 60950-1
- CSA-C22.2 No 60950-1-07

2.3.3. FCC Compliance

The product described in the present Installation Guide complies with Part 15 of the FCC Rules. Operating is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

2.3.4. Certifications

The product described in the present Installation Guide has been certified by authorized bodies:

- UL Certificate Of Compliance (CoC) for Ordinaty Locations # E350576 for a TMRA of 60°C
- CB certificate # DK-42240-UL

These certificates can be downloaded as PDF files on the eWON Support web site: http://support.ewon.biz/official-documents

2.4. Field implementation & environmental conditions

2.4.1. Ingress Protection

The eWON COSY 131 has an IP20 protection grade. Therefore, the eWON COSY is NOT suited for outdoor mounting. It has to be integrated in an electrical cabinet, protected from excessive heat, humidity and dust. Do not push any sharp object into the air vents or openings of the equipment.

2.4.2. Mounting Recommendations

The normal mounting position of the eWON COSY is wall mounted on a horizontal <u>Omega</u> <u>type DIN-rail (EN 50022)</u>.

• Mounting the unit on DIN-rail

Pull the slide lock (located at the bottom of the unit's back-side) downwards and present the unit in front of the DIN rail. Tilt the eWON upwards in order to hang it on the upper edge of the DIN rail by its hook. Gently tilt the unit downwards until it finds its original position. Pull the slide lock upwards to fix and lock the unit on the DIN rail.



Removing the unit from DIN-rail

Release the unit by pulling the slide lock downwards while gently tilting the unit upwards. Free the unit by unhooking it from the upper rail edge. See <u>2.4.2 Mounting</u> instructions

The product is intended to be mounted vertically, label on the right side



To ensure a proper ventilation of the equipment, a free gap of at least 2 cm must be



Chapter 2 Safety, Environmental & Regulatory Information

respected in front of all upper & lower ventilation openings of the unit.

A free gap of at least 1 cm must be respected on each side of the unit.



In any other mounting position than the one explained here above, the specified temperature has to be derated to -25°C to +40°C.



2.4.5. Environmental conditions

The equipment will operate properly within the following environmental limits if it has been correctly mounted according to the above mentioned recommendations:

Operating T°	-25°C to +70°C		
Relative Humidity	10 to 95% non-condensing		
Operating altitude	Up to maximum 2000m		
Storage temperature	-40 to +70 °C		
Storage Humidity	10 to 95% non-condensing		
Storage altitude	Up to maximum 3000m		

2.4.3. Earthing

Earthing the eWON is necessary to eliminate unwanted transients (lightning protection) and to conform to the EMC requirements. Therefore, a functional earth (FE) terminal is available on the main connector as shown in <u>A.2. Specification of the External Power Supply</u>, Connect this terminal directly to allow impedance ground. Shielded cables have to be used for Ethernet and USB to comply with the EMC requirements.

2.5. Battery

The COSY contains a CR2032 battery. This battery is used to maintain the real time clock upto-date even when the unit is not powered.

- Caution -

Risk of explosion if battery is replaced by an incorrect type. The battery is not attended to be replaced on consumer's side. The product shall be returned to manufacture for replacement.



3. Hardware description

3.1. Label

The identification label of the eWON COSY 131 is placed on the right hand side of the housing. The different parts of the label are described below:

eWON COSY 131 Ethernet	Label	Description
	PN	Part Number (see syntax table below)
		Serial number on the form
PN: EC61330_00MA/S COSY 131	SN	YYWW-SSSS-PP
SN 1501-0001-22 MAC: 00.03.27.01.7B.8C Rating 12-24V 2.5A Made in Belgium Image: Computer Street Stree		 YY = Year of production WW = Week of production SSSS = sequential mfg order PP = product type
0682 E350576	MAC	MAC address of the Ethernet adapter
	Rating	Power supply requirements
	Marks	CE, UL, logos if applicable

Marks	Description	
CE	Conformité Européenne or European Conformity (EC)	
0682	Notified Body Number, warrantor of the CE Mark validation	
	UL Listed (Underwriters Laboratories)	
FC	FCC Federal Communications Commission	



Label can have variant marks depending of models





eWON COSY 131 WiFi

eWON COSY 131 – 3G Penta

EC6133m_ccLL[suffix]

Position(s)	Description	Acceptable values		
EC	name of the family	or eWON COSY		
6	number corresponding to the HW platform.	6	for "Cosy 131" platform	
1	is communication options 1.	1	One Ethernet	
3	Is communication options 2.	Three Ethernet		
3	field communication option.		USB	
	modem communication option.	0	No modem	
m		С	WiFi	
		D	HSUPA Modem	
СС	is one or more digits or letters that correspond to software options	00 =	00 = no software option	
LL	Defines the firmware language MA UK + FR + DE		UK + FR + DE + SP	
[suffix]	can have an optional "/" character Defines the compliances of the unit	S	compliance with the UL/IEC/EN 60950 standard	



Chapter 3 Hardware description

3.2. Mechanical dimensions



3.3. Overal description

3.3.1. Front

#	Description	
1	Reset button	
2	Status LEDs panel	
3	LAN/WAN Ethernet ports and corresponding status LEDs (Red : WAN / Green : LAN)	
4	USB slot *	
5	SD card slot *	

• USB Slot & SD Card are not supported for the moment

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Chapter 3 Hardware description

3.3.2. Upper side

1



Main connector including power input terminal, 1DO and 2 DI

For more information about the connector see in <u>A.1. Main Connector</u>

3.3.2. Status LED panel (COSY 131 – All version):



Label	Description	
BI1	Button BI1 input Green ON = Reset being pressed	
PWR Power Green ON = Power is present		
USR	User Green ON+OFF slowly = Unit is OK RED pattern = special attention required	
KEY	Digital IN 1 Green ON = Signal on input 1 detected	
DI2	Digital IN 2 Green ON = Signal on input 2 detected	
T2M	Talk2M Green ON = Talk2M VPN connection established	
@	Internet Green ON = Internet is configured on the eWON COSY	



Chapter 3 Hardware description

3.3.3.1. Status LED panel (COSY 131 - WiFi)



#	Mark	Description
1	/	SMA male connector for WIFI antenna
2	ST	Modem status Green ON = WiFi connected
3		Reception signal level Red ON = Poor signal
4		Reception signal level Red ON = Signal is OK
5		Reception signal level Red ON = Good signal

3.3.3.2. Status LED panel (COSY 131 - Cellular 3G+)



#	Mark	Description
1	/	SMA female connector for GSM antenna
2	ST	Modem status Green ON = Modem connected
3		Reception signal level Red ON = Poor signal
4		Reception signal level Red ON = Signal is OK
5		Reception signal level Red ON = Good signal



3.4. Radio communication models

- Warning -

This device is to be used only in fixed or mobile applications (not for portable applications). The antenna used for this transmitter has to be installed in a space providing a safe distance of at least 20 cm without encountering any person and must not be co-located or operating in conjunction with any other antenna or transmitter.

	3.4.1.	COSY	131	with	internal	WiFi modem
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Cosy 131 – Wifi			
ltem	Value(s)		
Protocols and Frequencies	IEEE802.11b/g/n, 2.4GHz		
Antenna Connector	Type RP-SMA		
	Charact.	Value(s)	
	Impedance	50 Ohms	
	Max. gain	2.4 dBi	
Antenna (included in the delivery)	Input Power	> 17 dBm, IEEE 802.11b > 15 dBm, IEEE 802.11g/n	
	Tightening Torque	0.5 Nm. In the absence of a torque wrench, a soft manual tightening is sufficient.	

- The product complies with the R&TTE directive, the FCC, the IC and Japan regulations related to the Wifi communications.
- The antenna must have a directional gain smaller or equal to 2.14dBi
- Modifications cannot be made by the user that can influence the EMC behavior of the device.
- The user shall be informed about modem identification numbers according to their national authorities:

This product contains part identified as follows by national authorities: - FCC ID: QOQWF111

- IC ID: 5123A-BGTWF111
- RRA ID: KCC-CRM-BGT-WF111
- GITEKI (MIC) ID: 209-J00061



3.4.2. COSY 131 with internal 3G+ Penta modem

Cosy 131 – Cellular 3G+			
ltem	Value(s)		
Protocols and Frequencies	GSM/GPRS/EDGE - 850, 900, 1800, 1900 MHz UMTS/HSUPA - 800/850, 900,AWS 1700,1900,2100 Mhz		
Class	5 bands GPRS/EDGE Class 33		
Antenna Connector	Туре ЅМА		
	Charact.	Value(s)	
	Impedance	50 Ohms	
Antenna	VSWR	<= 5:1 Absolute max. to avoid permanent damage <= 2:1 Limit to fulfill all regulatory requirements	
(not included in the delivery*)	Gain	1.4 dBi @900 and 3dBi @1800 1.4 dBi @850 and 3dBi @1900 1.43 dBi (WCDMA)	
	Input Power	> 33 dBm (2W) peak power in GSM> 24 dBm average power in WCDMA	
	Tightening Torque	0.5 Nm. In the absence of a torque wrench, a soft manual tightening is sufficie	

As see in 2.4.1 Mounting instructions SIM Card Tray is at the rear of the COSY 131

(*) 3G antenna has to be purchased separately, 3G penta band antenna is available from eWON with FAC90501_0000 as reference

- The product complies with the R&TTE directive, the FCC, the IC and Japan regulations related to the GSM modems.
- The antenna used for this module must not exceed the gains mentioned in the table below.
- No modifications can be made by the user that can be of influence on the EMC behaviour of the device.
- The user shall be informed about modem identification numbers according to their national authorities:

This product contains part identified as follows by national authorities:

-FFC ID: RI7HE910

-ICID: 5131A-HE910

- GITEKI (MIC) ID: 005-100269
- JATE ID: AD12-0318001



4. COSY IP Address & Access to the Web Configuration

4.1. Factory Default IP settings

Characteristics	Value(s)
LAN IP Address	10.0.0.53
LAN Subnet Mask	255.255.255.0
Gateway	0.0.0.0

4.2. Powering ON

Power on the unit and wait approximately 25 sec. until the boot process is finished.

After a successful boot process the **USR** LED is flashing green ON & OFF slowly.

If the **USR** LED is flashing RED according to a given pattern, it indicates that the boot process was interrupted due to a problem. Most frequent problems include :

 a duplicate IP address was detected on the LAN Network USR LED flashing pattern is RED 1x short, 1x long

For the other LED patterns in case of error, please refer to the General Reference Guide RG-001.

4.3. Setting the eWON COSY LAN IP Address

You can easily establish your first communication with your eWON COSY by using our companion tool **eBuddy** which can be downloaded from http://support.ewon.biz/software

Connect one of the LAN-ports (by default, port No. 1 is always a LAN port) of your COSY with your PC point-to-point or through a network where there is no risk that the eWON's default IP-address (10.0.0.53) would conflict with another connected device.

Start the eBuddy application. This one scans the network through the Ethernet adapter and retrieves the connected eWON, including its IP address, Subnet Mask and serial number. The application also allows you to change the default IP address without being necessarily in the same network range.



Start the **eBuddy** utility on your PC

In the home page, select **Set IP Address**

COSY IP Address & Access to the Web Configuration



😫 eBuddy - eWON Maintenance Utility eBuddy The eWON companion Set IP Address IP Address Wizard x Welcome to the IP Address Wizard **ewon** Which eWON would you like to configure? Update Firmware Click this link to upd (Make sure eBuddy Serial Number: Backup/Restore Applic User Login adm Username: Update eBuddy ••• Password: Download the lates Switch to List Mode (A Next > Cancel 🗘 eBuddy - eWON Maintenance



Fill in the Serial Number of your COSY or click on **Browse** and select it.

The Serial Number of the COSY is on its label, see in <u>3.1.Label</u>

Click Next

Enter a new LAN IP address and Subnet Mask.

Click Next



COSY IP Address & Access to the Web Configuration

Wait until the address is updated <u>and the device has</u> <u>rebooted</u>.

Click Finish.



4.4. eWON COSY's Web Interface

To access the web pages of your eWON COSY proceed as follows:

Connect the PC to one of the LAN port of the eWON COSY.

Open your Internet browser and access the eWON COSY internal Web page by entering the LAN IP address in the URL field (the default address is <u>http://10.0.0.53</u>).

You arrive on a loading page



If this is the first boot of the eWON COSY (or after a level 2 reset), you will be asked for a default language.

Select interface language		
English		
German		
French		
The eWON language has not been configured yet, you can select it now or configure it later. The default login name is adm and the default password is adm		
Ok		



Before configuring your eWON COSY, an authentication is required.

For a first boot, the default login & password are both "adm".



- Warning -

For security reasons, changing the default password "adm" is absolutely required.



You will be automatically redirected to the Quick Launch Wizard page:

You can follow the Quick Start Guide as an aid to configure your eWON COSY.

Can be downloaded on http://support.ewon.biz/cosy-131



To reconfigure your eWON COSY, you can easily rerun the wizard by clicking on the Settings button on top of the page.





5. Troubleshooting

5.1. Normal Boot Process

The normal boot process of the eWON COSY <u>takes approximately 25 seconds to complete</u>. During this process, all LEDs are shortly ON, except BI1 as long as the RESET button is not pressed. During this boot sequence, the **USR** LED is orange. As soon as the boot process is finished and the unit is ready to be used, the **USR** LED flashes GREEN slowly.

5.2. Resetting the eWON COSY 131

The reset button B1 is located on the front of the COSY unit (see in <u>3.3.1.Front</u>). The reset function of this button is active only if pressed while powering on. The eWON COSY features two type of reset levels. A table follows with the impacted configuration zones per reset level.

5.3. First Level Reset (user reset)

The first level reset consists in formatting only the « **user files** » part of the non volatile memory. This type of reset does not modify the communication parameters of the eWON COSY.

How do I generate a first level reset?

- Power the unit OFF and ON again
- Immediately press and maintain the reset button. The LED labeled BI1 turns ON.
- Wait <u>approximately 30 seconds</u> until the **USR** LED <u>flashes RED</u> 1x per second.
- Immediately release the button (if you don't, you would reach the second level reset phase). The LED labeled BI1 turns OFF.
- Wait approximately 30 secs until the reset procedure is completed.
- The eWON <u>restarts automatically</u> and the unit is ready to be used, the **USR** LED flashes GREEN slowly.

5.4. Second Level Reset (factory reset)

This second level reset formats the entire non volatile memory and returns the eWON to its factory settings. This operation consists in 3 steps:

- Formats the entire non volatile memory, including all COM parameters and IP addresses
- Full hardware auto-test with result shown by the USR LED
- Return to ex-factory configuration (default config)

How do I generate a second level reset?



- Power the unit OFF and ON again
- Immediately press and maintain the reset button. The LED labeled BI1 turns ON.
- Wait <u>approximately 35 seconds</u> until the **USR** LED <u>remains RED steady</u>.
- When this state is reached, release the button. The LED labeled BI1 turns OFF.
- It takes no longer than 2 seconds to complete.
- Check if the auto test is successful, the USR LED flashes RED with a pattern of 200ms ON and 1,5 sec OFF¹. The eWON COSY does NOT restart in normal mode by itself and remains running in this diagnostic mode.
- You have to power the eWON COSY OFF and ON again to reboot the unit in normal mode. As described before, the eWON returns to its default COM parameters and factory IP addresses (like LAN 10.0.0.53) after this level 2 reset is performed.

5.5. Reset Impact Matrix

	Erased or Reset	Preserved
		LAN IP address + mask
	adm password	Internet access
Impact		Language settings
(user reset)	eWON Identification	Modem/ Wifi settings
	User Web site	Talk2M config
		Proxy configuration

adm password	
eWON Identification	Nothing
User Web site	
LAN IP address + mask	
Internet access	
Language settings	
Modem/ Wifi settings	
Talk2M config	
Proxy configuration	
	adm password eWON Identification User Web site LAN IP address + mask Internet access Language settings Modem/ Wifi settings Talk2M config Proxy configuration

¹ Any other pattern reflects a problem. The pattern will start with 200ms ON (opening of the pattern) followed by OFF and a certain number of times of a 1 sec ON allowing to identify the nature of the detected problem. If you were to be confronted with an error pattern on the **USR** LED, please write down the pattern you observed and contact your distributor.



Appendix A - Connector Pinout & Related Specifications

A.1 - Main Connector

As shown in the picture, the female mating connector is labeled with the appropriate symbols.

Characteristic	Value
Connector type	MINICONNEC MC model Type MC 1,5/9-ST-3,5 Pitch = 3.50 mm 9-pin female
Connector pinout	$0 0 0_{+} i_{1} i_{2} + - \pm$ 1 2 3 4 5 6 7 3 9

PIN	ICON	ID	Description
1	O.	DO_COM	Output signal (0V ground) connected to the emitter of the MOSFET transistor
2	0	DO	Output signal connected to the drain of the MOSFET transistor
3	O+	DO_VDC	Common of the external predrive power supply (between +12 et +24 VDC)
4	i.	DI_COM	Ground of the input (isolated)
5	i,	DI1	Input signal 1
6	i ₂	DI2	Input signal 2
7	+	Power in VDD +	between +12 et +24 VDC
8	-	Power in GND -	0V
9	늘	Functional Earth	



A.2 - Specification of the External Power Supply

The eWON COSY must be powered by a safety Low Power Supply (LPS) in accordance with clause 2.5 of UL/IEC 60950-1 Ed2. Standard, 12-24Vdc, 30W min. Certified for 60°C and for altitudes up to 2000m. The safety LPS power supply is not part of the delivery.

Suggested power supply:

SIEMENS SITOP logo power 24V 2.5A 60W - Siemens order ref: 6EP1332-1SH43.

Equivalents are available on the market.

Power Supply			
Characteristic	Value		
Power supply voltage	external 12-24 VDC +/- 19%		
Max COSY input power	30W max.		
Internal voltage protection	max 30V		
Input protection	protected against polarity inversion		

A.3 - Digital Output & Digital Inputs

Digital Inputs			
Characteristic	Value		
Type of digital output ²	Open drain MOSFET		
Max. current (ext,source)	200 mA		
Isolation (both DI & DO)	1,5 kV		
DI voltage range	0 to 24 VDC		
DI protection	33 VDC Max		
DI OFF state input voltage range	0 to 5 VDC		
DI ON state input voltage range	10 to 30 VDC		
DI ON state current range	From 3,8 mA @ 12 VDC to 8,2 mA @ 24 VDC		

² When the eWON COSY reboots, a short phase of ON state is part of the starting process.



Appendix A - Connector Pinout & Related Specifications

The digital output is activated by an open drain MOSFET transistor driven by an optocoupler. The maximum current flow inside this transistor has a value above the one specified in the eWON, in order to cope with the switching power losses.

The transistor used is in an open drain type with predrive. This means the relay power supply has to be supplied from an external source to the predrive electronics. The diagram below shows the external wiring needed for correct operation of the digital output. A relay has been chosen for this sample application but any load within the specifications can be used instead.

- Note -

This is a sink only output to ground (the transistor acts like a switch to ground).





Revision

Revision History

Revision Level	Date	Description
1.0	22/01/2015	Original Document
1.1	04/02/2015	Pictures modifications

Document build number: 41

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