Motherboard battery replacement instruction CX8110 Embedded pc

The motherboard battery is a CR2032 lithium-metal cell. It is used to supply power to the clock integrated on the motherboard. If the battery is depleted or missing, the date and time are displayed incorrectly. Recommendation for replacement interval is **5 years**.

Battery type Use only one CR2032 3V battery!

Preparations

The time and date may be lost during the battery replacement. Therefore, these need to be checked and possibly reset after the battery has been replaced. Prepare the following <u>before</u> starting to replace the battery:

- Host PC (Laptop). No special software is required. Just an installed web browser and the ability to adjust the network settings
- Network cable (if there is no network connection on the host pc, you will need an adapter)

Replacing the battery

Requirements:

- Screwdriver size 1
- C2032 3V replacement battery

Note: Scratches or damaged components on PCBs can cause the electronics to fail. Be very careful when replacing the battery and avoid mechanical damage to the electronics.

Replace the battery as follows:

- 1. Switch off the main power of machine.
- 2. Open the front flap.
- 3. Apply the screwdriver below or above the battery and prize the battery carefully out of the battery compartment.





4. Push the new battery into the battery compartment. The plus pole points to the left towards the Ethernet interfaces.



5. The battery change is complete. Close the front flap.

Check date and time

- 1. Switch on the main switch.
- 2. Remove the network cable to the HMI.



3. Connect the additional network cable between control IPC and host PC (Laptop).



4. Open your network settings of host pc (Laptop). Now you can see the active LAN connection. Double click to open the settings for this connection.



5. Open the Properties for 4 (TCP/IPv4) protocol.

Connect using:			-
Prealtek PCIe GBE Family C	Internet Protocol Version 4 (TCP/IF	Pv4) Properties	
	General		
This connection uses the following	You can get IP settings assigned a	utomatically if your network supports	
Client for Microsoft Netwo	this capability. Otherwise, you nee for the appropriate IP settings.	d to ask your network administrator	
File and Printer Sharing for			
QoS Packet Scheduler	Obtain an IP address automat	tically	
Microsoft Network Adapt	Use the following IP address:		
Microsoft LLDP Protocol	IP address:	and the second second	
Internet Protocol Version	Subnet mask:	· · · · · · · · · · · · · · · · · · ·	
<	Default gateway:		
Install Unin			
Description	Obtain DNS server address au	utomatically	
Transmission Control Protocol/I wide area network protocol that	Use the following DNS server	addresses:	
across diverse interconnected r	Preferred DNS server:		
	Alternate DNS server:		
	Validata pattings upon avit		

6. Change to "Use the following IP address" and set the IP address according to picture below.

IP-Adresse:	192 . 168 . 10 . 25
Subnetzmaske:	255 . 255 . 255 . 0
Standardgateway:	192.168.10.1

- 7. Confirm with "OK"
- 8. Open a web browser on the host PC (laptop).
- 9. Enter the IP address of the industrial PC in the web browser according to picture below to start the Beckhoff Device Manager.

0	https://192.168.10.16/CONFIG
1	foptreffer
	CX-6DCBDB - Device Manager - 192.168.10.16/CONFIG/

10. Enter the username and password.

User:	Administrator
Password:	1

11. The start page appears. Now you can check the Date and Time of control IPC.

BECKHOFF Device Manager			← →
<u>.</u>	Device		~ ×
System	Name	CX-16C2B8	
Device 🖵	Date Time	16.08.2016 10:55:11	
	Operating System	Windows CE 7.0	
	Image Version	CX20x0 HPS 6.02j	
	Hardware Version	CX2040-0121 v1.6 2013-12-17	
Boot Opt.	Serial number of IPC	3138	
പ്ര പ്ര	Device Manager Version	2.0.0.10	
Software	Workload	Temperature	
	CPU	0% 38 Max: 100% Meinboard Max: 1	° C ^{00°C}
TwinCAT	ARABA Memory	1% Max: 100%	
	FAN		
	FAN 1 (rpm)	2685	
	FAN 2 (rpm)	0	
	FAN 3 (rpm)	0	

12. If the date and time are not correct, this can be reset under "Software". The time zone can also be adjusted.

⊑ВЕСКНОFF	Device N	lanager			
	284	os	SNTP Server		≤ ✓ ×
		os	Servername	time.windows.com	
Device			Refresh Rate	14 days 📀	
		System	Local Date/Time		✓ ×
Hardware		ę.,	Date (dd.MM.yyyy)	10.07.2024	
naroware	_	Filesystem	Time (HH:mm:ss)	16:20:50	
	<u>r@</u>	548	Timezone		×
Software		Shares	Timezone	(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna	0
	653		Display Device		✓ ×
	~~~		Name	Display Resolution	
TwinCAT			Display Device	800 by 600, High Color (16 bit), 60 Hertz	٢
	Ţ				
Security					

13. Close the web browser, disconnect the additional network cable between control IPC and host PC (Laptop) and reconnect the network cable for the HMI.