

Aggiornamento del firmware della connessione elettrica EB 80 con Bus di campo

Firmware update of EB 80 electrical connection with Fieldbus



1. AGGIORNAMENTO DEL MODULO BUS DI CAMPO

Per aggiornare il firmware della connessione elettrica EB 80 con Bus di campo, è necessario installare il software BootWizard sul PC in uso.

1. FIELDBUS FIRMWARE UPDATE

In order to update the new firmware on the CPU, a specific setup is required: to configure the setup, the following preliminary operations need to be performed. Install BootWizard on the PC.

Aprire il coperchio del modulo EB 80.

Open the cover of EB80 system.



Impostare su ON il DIP switch SW1.

Set ON channel 1 of DIP switch SW1.



Connettere il modulo al PC tramite un cavo USB (USB tipo A – mini USB). Alimentare elettricamente il modulo. Connect the board to the PC via USB (USB type A-mini USB cable). Connect the power cable and power ON the board.





1.1 CANCELLARE LA MEMORIA FLASH

- Aprire il programma BootWizard e cliccare sul pulsante ERASE flash.
 Selezionare Chip type netX 51/52.
 Selezionare "Serial flash on SPI bus" dal menu a tendina.
 Cliccare sul pulsante ERASE.
 Selezionare uart_COM e cliccare OK.

- 6. Attendere la fine della cancellazione.

1.1 ERASE FLASH

- Open the program BOOTWIZARD and Click ERASE flash.
 Select Chip type netX 51/52.
 Select "Serial flash on SPI bus" from the Flash Type combo-box.
 Click ERASE.
- 5. Choose **uart_COM** and click **OK**.
- 6. Wait for SUCCESS.

🞬 netX Bootwizard	1.4.0.1						↔ _ □ X
File View							
Select task: Images Build image Modify image Check image Flashing Write to flash Verify flash Read from flash Erase flash Quickstart Actions	Chip type netX Flasher parar Area Flash type Erase	500 offset Size 0 -1 Serial flash on SPI bus 3 Add this as a quickstart action) 100 V All	© 50	2 (9) 51/52	© 10	Detect
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Quit		Name	1	Typ romloader uart		Comment	
Message Log	arfacas with elv		4				×
10:42:59: Found 0 int 10:42:59: Found 0 int	erfaces with plug erfaces with plug	gir 	Ok		Rescan	Cancel	ĺ

Test 'Bootwizard' in progress...Lua uses 1536 kilobytes

1.2 SCARICARE IL NUOVO FIRMWARE

Per effettuare l'aggiornamento seguire le seguenti operazioni.

- Cliccare sul pulsante Write to flash.
 Cliccare sul pulsante File to flash.
 Selezionare il file .bin e cliccare Apri.
 Cliccare sul pulsante OK del messaggio popup.

1.2 DOWNLOAD THE NEW FIRMWARE

To effect the update follow these steps.

- Click Write to flash.
 Click File to flash.
 Choose .bin file and click Open.
 Click OK on pop up message.

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		✓ Binary, B	loot Image or NXF Files 🔻
		Apri	- Annulla
			Binary, B Apri



- 1. Selezionare Serial flash on SPI bus dal menu Flash Type
- 2. Selezionare Internal Ram dal menu Buffer.
- 3. Cliccare sul pulsante **Flash** per scaricare l'aggiornamento. Attendere la fine del processo.
- 4. Togliere l'alimentazione elettrica.
- 5. Impostare su OFF il DIP switch SW1 per abilitare l'aggiornamento.
- 1. Select Serial flash on SPI bus from the Flash Type combo-box.
- 2. Select Internal Ram from the Buffer combo-box.
- Click Flash to download the update. Wait until the writing process has been completed.
- Power OFF the board.
- 5. Set OFF channel 1 of DIP switch SW1 to allow the boot from the flash memory.

netX Bootwizard	1.4.0.1						
File View							
	Input	Cultaveralt				10.07 DecSuite tested Mr	
Select task:	Input file	C: (Lavoro (1 -	work in progress (in Progress (i	I - Aggiornamenti CM - HDM (HDM	I Ethemet-1+ Mit KAVET+ THOM -	19-07 Prosulte tested yie	Reload File to flash
Images	Chip type						
Build image	netX	0 500	100	50	51/52	10	Detect
Modify image	Bootblock par	ameters					
Check image	Addresses	Load Address	Entry Point				
Write to flash		0x40002000	0x40002000				
Verify flash	User Data	0x00000000					
Read from flash	Source device			V			·
Erase flash	Dest. device			▼			▼
	-Flasher paran	neters					
Quickstart Actions	Area	Offset	Size				
Config		Corial flach on	SPT burn				-
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3	Flash	Add this as a	quickstart action				
Message Log							×
10:51:27: setting flash 10:51:27: Information:	device type to The netX chip t	2 type and the so	urce/destination devices could r	not be identified or there are mult	iple matches.		A
Please select the corre	ct chip type and	Flash device.					
							T
				Test 'Booty	wizard' in progressLua uses :	2227 kilobytes	



1.3 INIZIALIZZAZIONE DEL SISTEMA

IMPORTANTE: alla prima accensione dopo l'aggiornamento, è necessario attendere 40 sec, per inizializzare il sistema.

CONFIGURAZIONE DEL SISTEMA EB 80

Prima dell'utilizzo il sistema EB 80 deve essere configurato tramite una procedura che permetta di conoscerne la composizione.

La configurazione si effettua premendo il pulsante posto sotto lo sportello, all'accensione del sistema. La pressione deve essere mantenuta fino al lampeggio contemporaneo di tutti i Led delle basi e dei moduli segnale delle isole addizionali.

Il sistema EB 80 è caratterizzato da un'elevata flessibilità. È sempre possibile modificare la configurazione aggiungendo, togliendo o modificando le basi per valvole, moduli di segnale o isole addizionali. La configurazione deve essere effettuata dopo ogni modifica del sistema.

1.3 POWER ON FOR INITIALIZATION

IMPORTANT: at the first **POWER ON** after the writing of the flash, wait for **40 seconds** to initialize the system.

EB 80 SYSTEM CONFIGURATION

Before using the EB 80 system, it is necessary to configure it through a procedure that reveals its composition.

On switching on the system, keep button underneath the door down until the LED lights of all the bases signal modules and additional islands come on flashing simultaneously.

come on flashing simultaneously. The EB 80 system is highly flexible and its configuration can be changed at any time by adding, removing or altering the bases for valves, signal modules or additional islands.

The configuration must be effected after each change made to the system.

2. AGGIORNAMENTO DEL FIRMWARE EB 80

L'aggiornamento firmware delle basi valvole e dei moduli di segnale può essere effettuato attraverso la connessione elettrica Bus di Campo. La funzione è disponibile dalle versioni elencate in tabella e superiori.

ATTENZIONE: se sono installate versioni precedenti a quelle elencate in tabella, effettuare prima l'aggiornamento della connessione elettrica con Bus di campo, come descritto al capitolo 1.2 "scaricare il nuovo firmware".

	versione
Profinet IO	2.16
Profibus	1.7
EtherCAT	1.37
CANopen	1.06

Per aggiornare il firmware della connessione elettrica EB 80 con Bus di campo, è necessario installare il software EB 80 DS 20171221 sul PC in uso.

Verranno create due differenti icone, EB 80 Updater e EB 80 Data Store.

2. EB 80 FIRMWARE UPDATE

The firmware update of the valves bases and of the signal modules can be performed through the electrical connection of Field Bus. The function is available from the versions listed in the table and higher.

ATTENTION: if there are installed versions older than those listed in the table, first update the electrical connection with Fieldbus, as described in Chap. 1.2 "download the new firmware".

	versions
Profinet IO	2.16
Profibus	1.7
EtherCAT	1.37
CANopen	1.06

In order to flash new firmware on the CPU, a specific setup is required: to configure the setup, the following preliminary operations need to be performed.

Install EB 80 DS 20171221 on the PC.

Two different icons will be created, EB 80 Updater and EB 80 Data Store.

Aprire il coperchio del modulo EB 80.

Open the cover of EB 80 system.



Connettere il modulo al PC tramite un cavo USB (USB tipo A – mini USB). Alimentare elettricamente il modulo. Connect the board to the PC via USB (USB type A-mini USB cable). Connect the power cable and power ON the board.





- Aprire il programma EB80 Updater.
 Selezionare la porta COM... MetalWork.
 Cliccare sul pulsante Connect to the board EB 80.
- Open the program EB80 Updater.
 Select the COM... MetalWork.
 Click Connect to the board EB 80.

Board name	Serial number	Address	Version	Date		PROFINET 2.16 (Jan	15 2018 17:33:12)
Pneumatic					~	Software update	
s boards	000000	21	07.03	Jan 11 2018		Pneumatic	Digital input 8
MSP2009	000000	22	07.03	Jan 11 2018			
MSP2010	000000	2.3	07.03	Jan 11 2018		Digital input 16	Digital output
Digital input					•	Analog input	Analog output
MDI2023	000000	3.1	02.04	Aug 29 2016		Thermolium d	Libration and sectored and
MD12058	000002	3.2	01.00	Jun 15 2017		Inermal input	Update selected
1 boards	000000		00.00	1. 10 0017	^	Update loader	
Thermal input	000002	4.1	02.00	Jun 16 2017		Network check	
1 boards	000003	71	00.16	Dec 20 2017	^	Tum on leds	Tum off leds
						Restart	metal Work

- 1. A connessione effettuata, tutti i moduli connessi al sistema verranno visualizzati.
- Selezionare il tipo di modulo da aggiornare premendo il rispettivo pulsante nella sezione Software update.
 Selezionare il file per il download.

- After connection, all the modules connected to the system will appear.
 Select the type of module to update, pressing the button in the Software update list.
 Select the file to download.

International Constraints Software update 1P2009 000000 2.1 07.03 Jan 11 2018 Pneumatic Digital input Digital input Digital input Digital input Digital output Digital output Analog output Analog output Analog output Itemmal input Analog output Update selected Update selected Update selected Update selected Itemmal input Item off leds Ite	The states which							
P2009 000000 2.1 07.03 Jan 11 2018 P2009 000000 2.2 07.03 Jan 11 2018 P2009 000000 2.3 07.03 Jan 11 2018 P2010 000000 2.3 07.03 Jan 11 2018 Digital input Digital input Digital input Digital input boards . Analog input Analog output VI2023 000002 3.1 02.04 Aug 29 2016 . VI2023 000002 3.2 01.00 Jun 15 2017 . Thermal input Update loader . . Vipdate loader . V2029 000002 4.1 02.00 Jun 16 2017 . remail input . . Network check . toards State Dords State . . .<	3 boards					^	Software update	
P2009 000000 2.2 07.03 Jan 11 2018 P2010 000000 2.3 07.03 Jan 11 2018 Igital input	ISP2009	000000	2.1	07.03	Jan 11 2018		Pneumatic	Digital input 8
IP2010 000000 2.3 07.03 Jen 11 2018 igital input - - Digital input - igital input - - Analog input - i2023 000000 3.1 02.04 Aug 29 2016 -	ISP2009	000000	2.2	07.03	Jan 11 2018			
igital input Analog input boards Vi2023 000000 3.1 02.04 Aug 29 2016 Vi2023 000002 3.2 01.00 Jun 15 2017 Thermal input Update selected vizotas 000002 4.1 02.00 Jun 15 2017 Network check Vizotas vizotas 000002 4.1 02.00 Jun 15 2017 Network check Vizotas vizotas 50200 000002 7.1 00.16 Den 20.2017 Network check	ISP2010	000000	2.3	07.03	Jan 11 2018		Digital input 16	Digital output
V12023 000000 3.1 02.04 Aug 29 2016 V120258 000002 3.2 01.00 Jun 15 2017 igital output Jun 15 2017 Image: Constraint of the selected Update leader v02059 000002 4.1 02.00 Jun 16 2017 Image: Constraint of the selected vermal input Jun 16 2017 Image: Constraint of the selected Vpdate leader vermal input Jun 16 2017 Image: Constraint of the selected Image: Constraint of the selected State Jun 16 2017 Image: Constraint of the selected Image: Constraint of the selected Image: Constraint of the selected	Digital input 2 boards					^	Analog input	Analog output
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	TTE2060	000003	7.1	00.16	Dec 20 2017			

- L'aggiornamento inizierà automaticamente.
 Alla fine dell'aggiornamento, premere il pulsante **Restart** per riavviare EB 80 e ristabilire la comunicazione con il sistema di controllo.
- The update will start automatically.
 At the end of the update, press the **Restart** button to restart EB 80 and re-establish communication with the control system.

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Board name	Serial number	Address	Version	Date		THOTING T 2. TO gain	15 2010 17.55.12)
Pneumatic					^	Software update	
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MSP2009	000000	2.2	07.03	Jan 11 2018			
MSP2010	000000	2.3	07.03	Jan 11 2018		Digital input 16	Digital output
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