Operation and maintenance instructions CPU PROFINET Series CX06 fieldbus node

CE	***Made in Italy***
The products are designed and manufactured in conformity with the following directives: - 2004/108/CE They also comply partially or totally with regard to the applicable parts of the following standards: - CEI EN 61131-2	

The website **www.camozzi.it** contains a section to download the relative CE Declarations of Conformity

1. Product identification

CAMOZZI Automation	Tabella di conversione della data di produzione.	86-1400-0001 Rev. D Foglio 01 / 02

Posizione 1 e 2: n° della settimana.			
01	14	27	40
02	15	28	41
03	16	29	42
04	17	30	43
05	18	31	44
06	19	32	45
07	20	33	46
08	21	34	47
09	22	35	48
10	23	36	49
11	24	37	50
12	25	38	51
13	26	39	52

Esempio di composizione.	
03P	
Descrizione:	
03	Settimana n° 03
P	Anno 2010

Posizione 3: Una lettera per l'anno in corso.				
A		1996	2021	2046
B		1997	2022	2047
C		1998	2023	2048
D		1999	2024	2049
E		2000	2025	2050
F		2001	2026	2051
G		2002	2027	2052
H		2003	2028	2053
I		2004	2029	2054
K		2005	2030	2055
L		2006	2031	2056
M		2007	2032	2057
N		2008	2033	2058
O		2009	2034	2059
P		2010	2035	2060
Q		2011	2036	2061
R		2012	2037	2062
S	1988	2013	2038	2063
T	1989	2014	2039	2064
U	1990	2015	2040	2065
V	1991	2016	2041	2066
W	1992	2017	2042	2067
X	1993	2018	2043	2068
Y	1994	2019	2044	2069
Z	1995	2020	2045	2070

Reparto competente:	Data:	Creato da:	Approvato da:
Uff. Industrializzazione	9 aprile 2010	Marco Bontempi	Bruno Ghizzardi

2. General recommendations

The recommendations regarding safe use in this document should be observed at all times.

- Some hazards can only be associated with the product after it has been installed on the machine/equipment. It is the task of the final user to identify these hazards and reduced the associated risks accordingly.
- The products dealt with in this manual may be used in circuits that must comply with the standard EN ISO 13849-1.
- For information regarding component reliability, contact Camozzi.
- Before proceeding with use of the product, carefully read all information in this document.
- Conserve this document in a safe place accessible to all personnel throughout the product life cycle.
- This document should accompany the product in the event of transfer to a new owner or user.
- The instructions in this manual must be observed together with the instructions and additional information regarding the product in this manual, available from the following reference links:
    - web sitehttp://www.camozzi.com
    - Camozzi general catalogue
    - Technical assistance service
- Assembly and start-up operations must be performed exclusively by qualified and authorized personnel on the basis of these instructions.
- It is the responsibility of the system/machine designer to ensure the correct selection of the most suitable pneumatic component according to the intended application.
- It is recommended to use suitable protections to minimize the risk of physical injury.
- For all situations not contemplated in this manual and in situations in which there is the risk of potential damage to objects, or injury to persons or animals, contact Camozzi for advice.
- Never make unauthorized modifications to the product. In this case, any damage or injury to objects, persons or animals will be the responsibility of the user.
- All relevant product safety standards must be observed at all times.
- Never intervene on the machine/system before verifying that all working conditions are safe.
- Before installation and maintenance, ensure that the specific envisaged safety locks are active, and then disconnect the electrical mains (if necessary) and system pressure supply, discharging all residual compressed air from the circuit and deactivating residual energy stored in springs, condensers, recipients and gravity.
- After installation or maintenance, the system pressure and electrical power supply (if necessary) must be reconnected, after which the operator must check correct operation and sealing efficiency of the product. In the event of sealing failure or malfunction, the product must not be used.

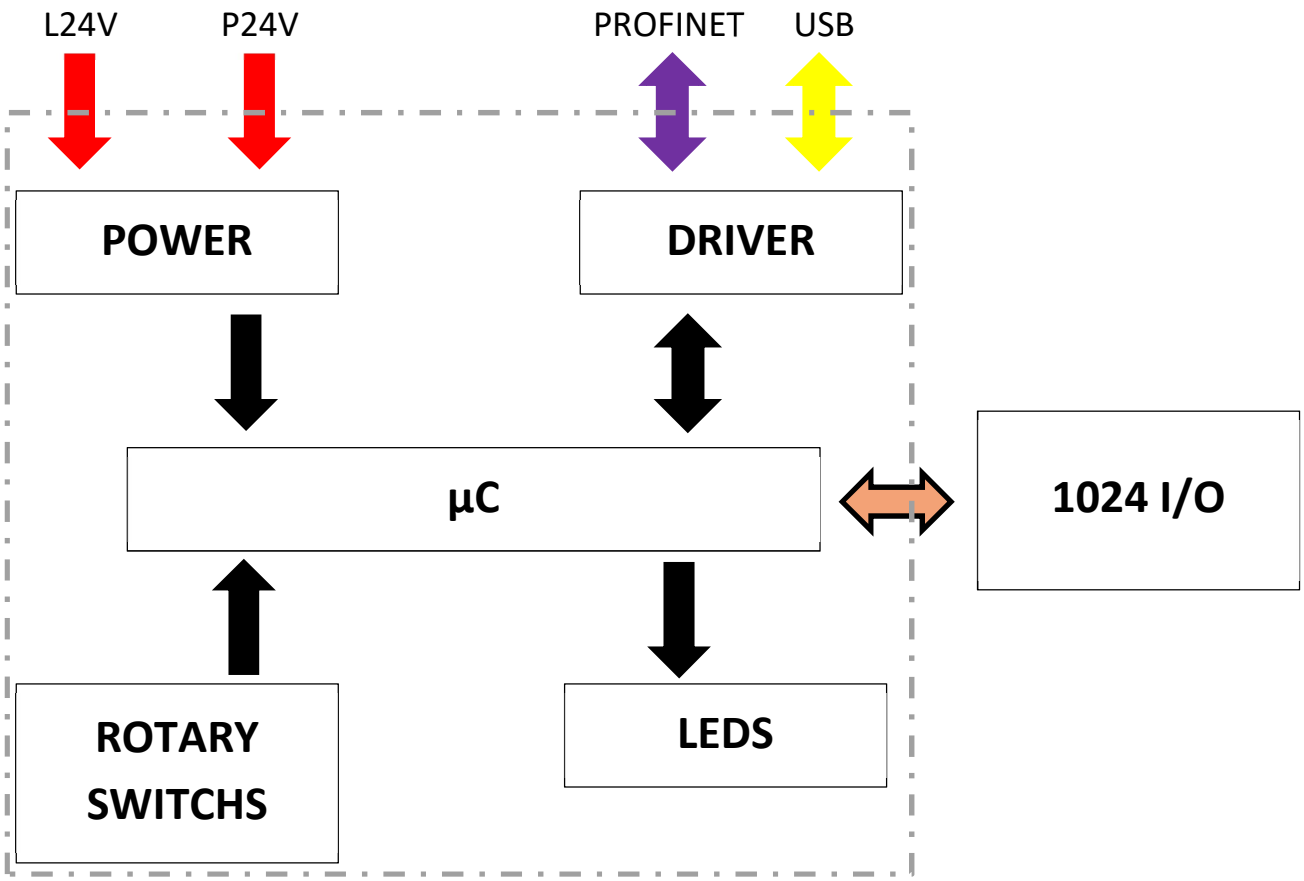
- The product may only be used in observance of the specifications provided; if these requirements are not met, the product may only be used on authorisation by Camozzi.
- Avoid covering the equipment with paint or other substances that may reduce heat dissipation.

3. General characteristics and conditions of use

General characteristics and conditions of use	
Assembly position	Any
Overall dimensions	L = 122,6 mm; W = 90,7 mm; H = 48,9 mm
Weight	425 gr approximately
Ambient temperature	0 ÷ 50 °C
Ambient humidity	Max 90%
IP protection rating according to EN 60529	IP65 (full system)
Vibrations	In according with CEI EN 61131-2
Continuous shock	In according with CEI EN 61131-2
Electrical connection	M12
Electrical power supply	24Vdc -15%/+20%
Digital Ouput Current consumption	Max 4,5A (limited by resettable fuse)
Logic, Digital Input and Analog I/O Current consumption	Max 2,0A (limited by resettable fuse)
Total Current consumption	Max 4,8A @ 20°C (not limited by fuse)
Output maximum number	1024
Input maximum number	1024
Protocol	ProfiNet IO
Baud rate	100Mbit/s (automatic selection)

The device integrates a 2-port switch that allows you to realize a linear bus topology.

4. Electrical circuit



5. Product storage and transport

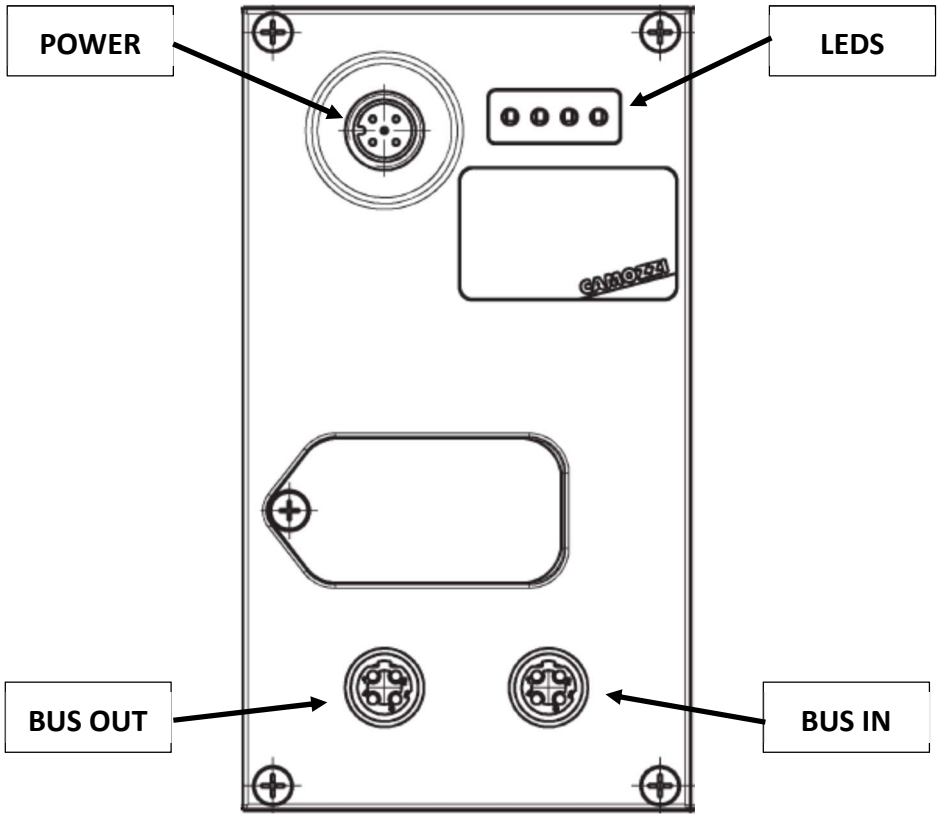
- Adopt all measures possible to avoid accidental damage to the product during transport, and when available use the original packaging.
- Observe the specified storage temperature range of -10 - 50 °C.

6. System general description

The CPU module allow to control and manage the activation of digital and / or analog outputs according to the commands received from the ProfiNet external bus and to transmit on the external bus diagnostic information provided by the system and the digital and/or analog inputs.

The system consists of a CPU module (ProfiNet slave device) that communicates with a ProfiNet Master via the bus.

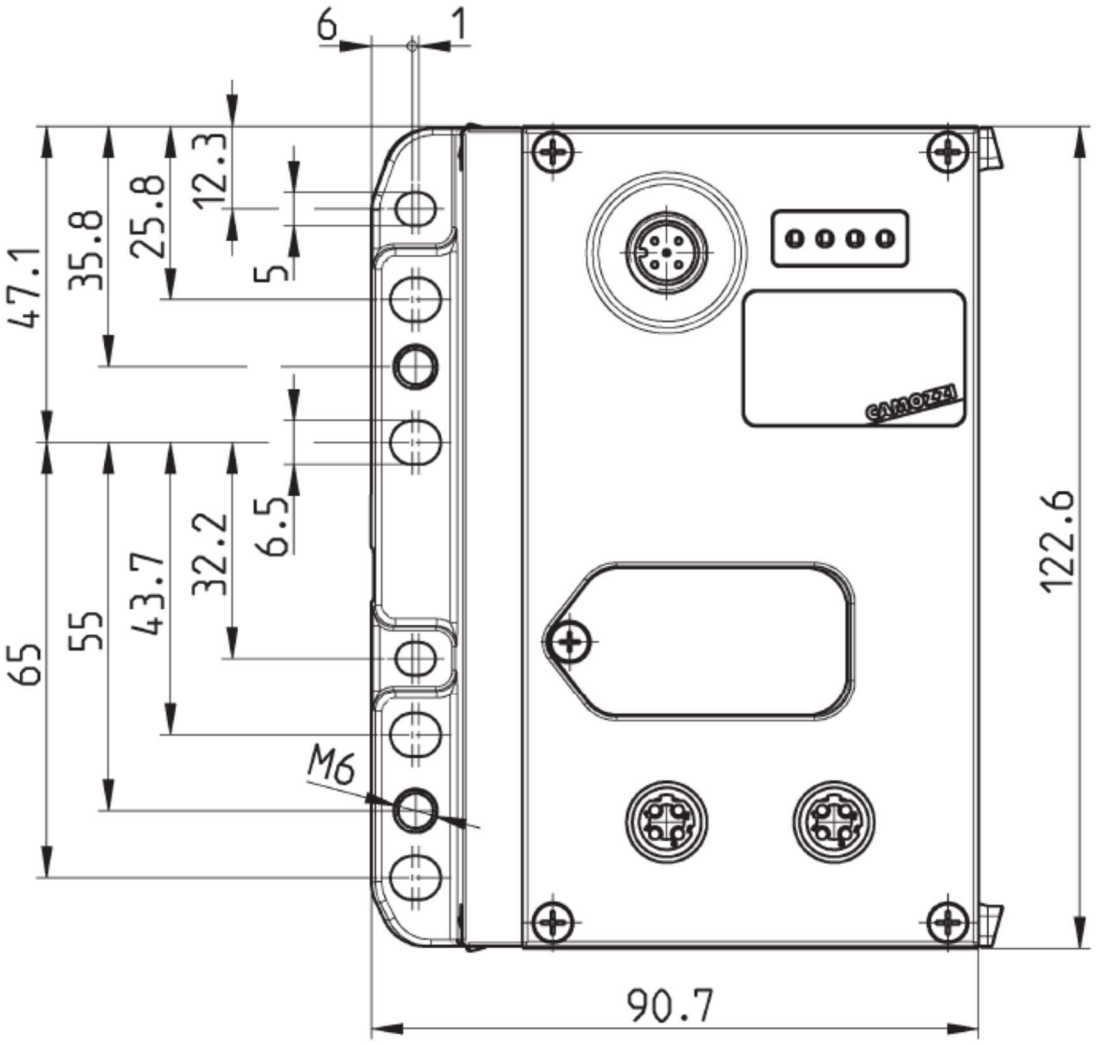
On the right side of the CPU module you can connected the input and output modules, analog and digital, and adapters that allow you to connect integrally the island a few series of valves. In addition a number of modules that allow you to remotely locate the modules above. For more details refer to the "**Operation and maintenance - Bus System Internal Camozzi**" manual.



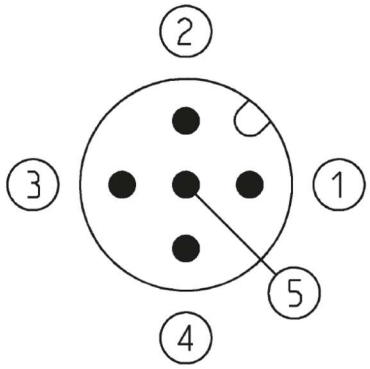
7. Installation and start-up

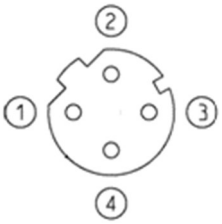
- During unpacking, take great care not to damage the product.
- Check whether there are any fault caused by product transport or storage.
- Separate all packaging material to enable the recovery or disposal in accordance with current standards in the country of use.
- Before operating the component, ensure that the stated specifications and performance correspond to requirements.
- During component installation, ensure suitable voltage overload protection devices are fitted.
- During component installation, ensure that no hazards are generated due to mechanical movements.
- Install the component in an area where the set-up and maintenance phases are easily performed without generating hazards for the operator.
- Close off any connections with suitable safety caps/covers.
- The components must be fixed correctly using, where possible, the specific anchors and ensuring that the fixture remains efficient even when the actuator is repeatedly used at a high frequency and in the presence of strong vibrations.
- In the case of strong vibrations envisage suitable devices/systems able to dampen the effect on the component.

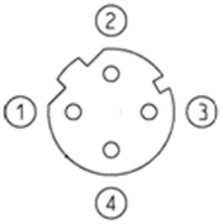
- Envisage the installation of dehumidifiers to avoid the formation of humidity or condensation on internal components.
- If the device is used to activate an actuator on which any accidental movement can generate a hazard, envisage suitable locking devices on the mobile section of the actuator.
- Ensure that the connectors are correctly connected and secured.
- The device can be connected to DIN rails using the relative elements PCF-E520 fitted on the rear of the body.
- The component can be directly fixed to a support using the 8 holes (of which 2 threaded M6) present on the side of the body



- This illustrates the pins of the M12 connector located on the upper section CPU module:

POWER Connector M12A 5 poles male			
Pin	Signal	Description	
1	**L24V**	24Vdc power supply (logic, digital input, analog I/O): connect to the positive pole of the 24Vdc power supply (ref. **GND)**.	
2	**P24V**	24Vdc power supply (digital output): connect to the positive pole of the 24Vdc power supply (ref. **GND)**.	
3	**GND**	Common (reference pin 1 and 2): connect to the negative pole of the 24Vdc power supply (compulsory).	
4	**EARTH**	Earth connection	
5	**NC**	Not connected	

BUS IN Connector M12D 4 poles Female			
Pin	Signal	Description	
1	**TD+**	Transmit data +	
2	**RD+**	Receive data +	
3	**TD-**	Transmit data -	
4	**RD-**	Receive data -	

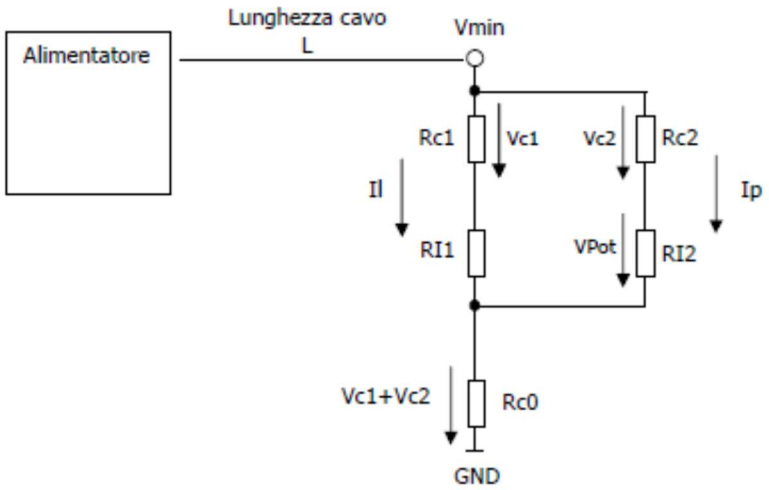
BUS OUT Connector M12D 4 poles Female			
Pin	Signal	Description	
1	**TD+**	Transmit data +	
2	**RD+**	Receive data +	
3	**TD-**	Transmit data -	
4	**RD-**	Receive data -	

For electrical connection are available the following wired connectors.

CONNECTOR	CODE	DESCRPTION
POWER	CS-LF04HB	Power supply straight connector
	CS-LR04HB	Power supply angled connector
BUS IN BUS OUT	CS-SM04H0	Bus-In and Bus-OUT straight M12 male connector
	CS-SB04HB-D100 CS-SB04HB-D500 CS-SB04HB-DA00	Straight moulded cable
	CS-SC04HB-D100 CS-SC04HB-D500 CS-SC04HB-DA00	Angled moulded cable

- Use only power able to ensure a reliable electrical isolation of the supply voltage according to IEC 742 / EN 60742 / VDE 0551 with a minimum strength of 4 kV isolation Protected Extra Low Voltage, PELV.
- The user must take the necessary measures to prevent damage to the system caused by non-periodic overvoltage spikes on the power lines produced by power break to high-energy equipment.
- The voltage interruptions are permitted according to the severity level PS2.
- About electromagnetic compatibility, the CPU module is designed to work in area A.
- The board implements a protection against inversion of polarity on the power supply voltage.
- The power supply voltage must be within the range of 24V±10%.
  The rated voltage of the CPU module is 24 VDC -15% / + 20% (as indicated by the Standard IEC 61131-2). If the loads connected to the initial node may require severest tolerances of the value of the supply voltage, the power supply voltage must comply with these. If the inputs connected to the initial node may require in the severest tolerances of the value of the supply voltage, the logic supply voltage of the node must comply with these.
  For example, if you connect the valves HN Series, the tolerance of the power supply voltage must be ± 10%. If you connect the CSH sensors with power supply 10-30V (-58% / + 25%), the tolerance of the logic supply voltage is -15% / + 20%.
  For the system it is mandatory to connect the logic voltage (pin 1), otherwise the initial module remains off.
  For the correct operation of the system is mandatory to connect to the initial module the logic voltage (pin 1), the power voltage (pin 2), the reference to 0 V (GND, pin 3) and the earth.
- On supply cables of a valve group, it produces a voltage drop that dependent by load. This can create that the supply voltage (logic and power) does not fall within the allowable tolerance. If the sections of the cables for the power supply and for the logic power supply are the same, it is possible to apply the following formula in order to calculate the length. To limit the effects of induced noises, it is recommended to limit the length of the power cable to 3 mt.
  Before is necessary to calculate:
  - The maximum current value for Logic+Input (I1) and for Power (I2)
  - The minimum power supply value expected during operation (Vmin), whereas it depends on the load connected and that the mains voltage can have oscillations.

  Use the value below in the following formula explained by the electrical drawing.



- Il = Logic currente + SPI input current
- Ip = Power current (loads)
- Rc1 + Rc2 = Cable resistance
- Rc0 = Common cable resistance
- L = Cable length

In order to calculate the cable length use this formula:

$$L \leq \frac{[(V\min - Vp\min) \times S \times Kcu]}{(2Ip + Il)}$$

Where:

- Vp min: minimum tension necessary for output
- V min: minimum tension expected from power supply
- Il: corrent necessary for logic and sensor
- Ip: corrent necessary for output
- S: cable section
- K: cable conductance (copper conductance Kcu = 56 m/(mm² * Ω))

Example:

V min = 24 V

Vp min = 21.6 V

Il = 1 A

Ip = 1 A (40 Series H coils)

S = 0,75 mm²

Kcu = 56 m/(mm² * Ω)

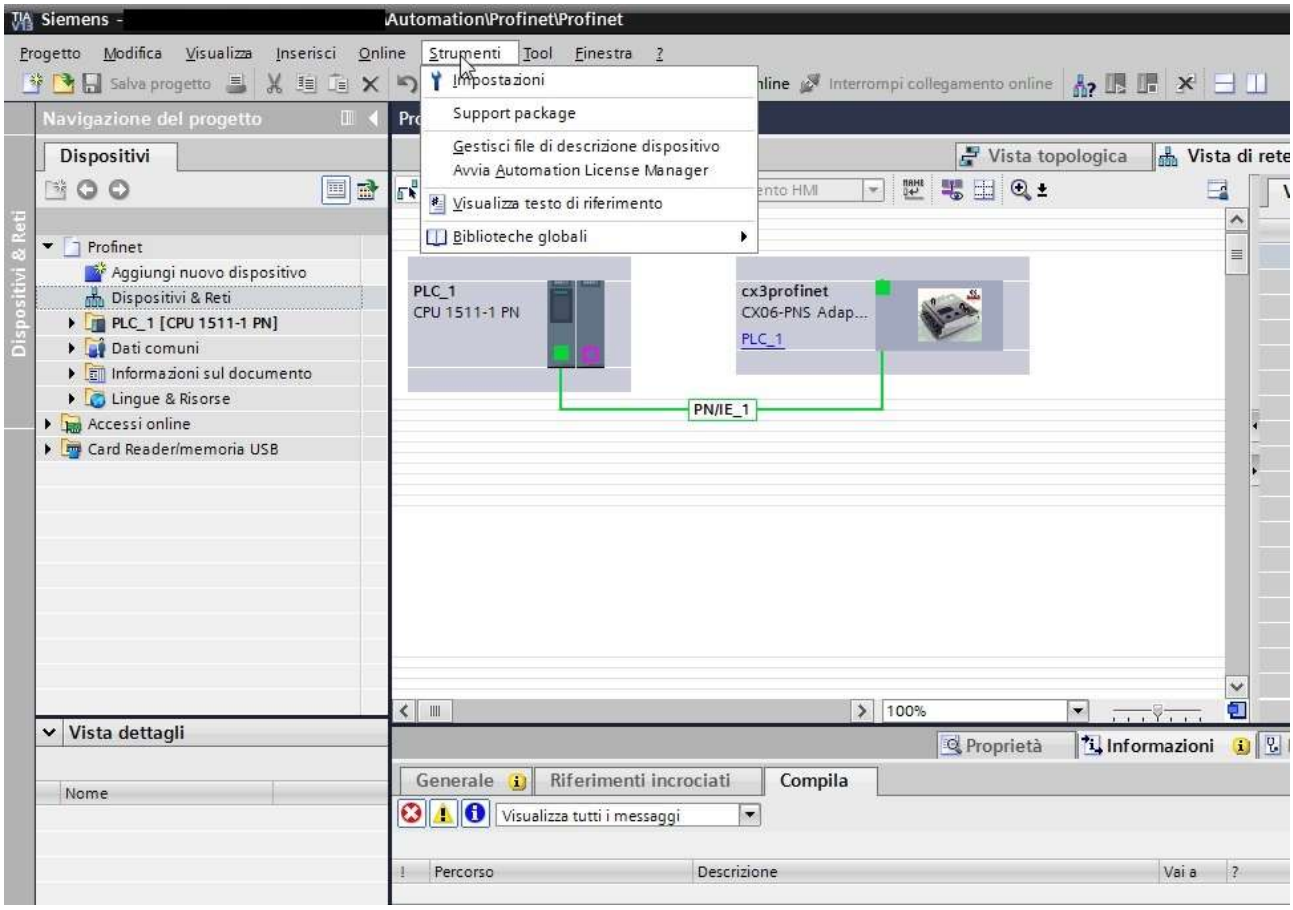
$$L \leq \frac{[(24-21,6)\times 0,75\times 56]}{(2+1)} = 33,6m$$

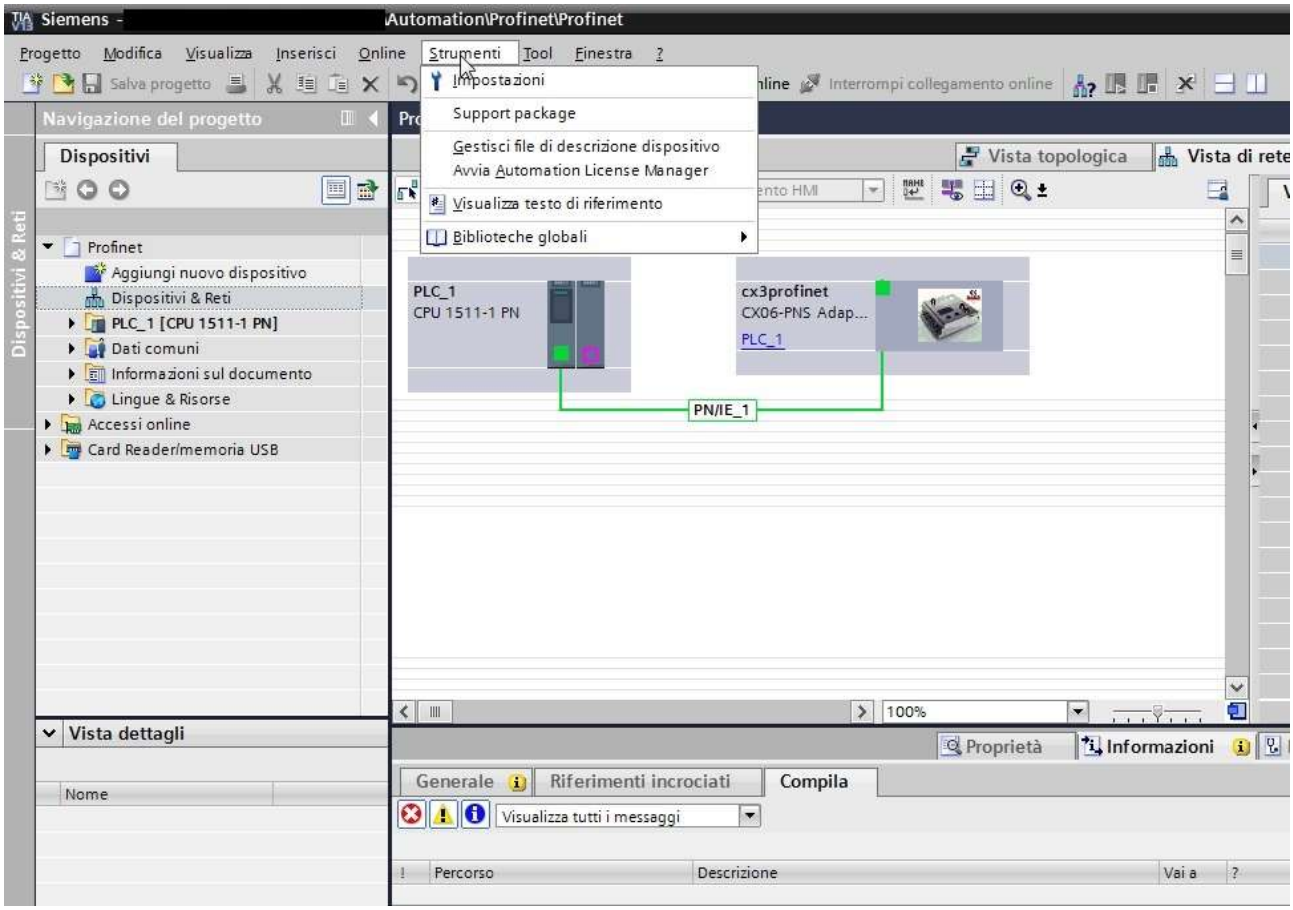
- To improve immunity to disturbance and prevent damage, it is recommended to connect the device to the circuit earthing system using any one of the holes on the aluminium body.
- In order to connect the CPU module to ProfiNet bus, is reccomended to use a CAT5 complies with specification.
- The ProfiNet segment maximum length is 100 mt. If it is necessary to exceed the maximum lengths indicated below, you must to use repeater.
- For configuration of the CPU module and the connected modules, download the set-up file of the software **CX-Configurator** from the web site http://www.camozzi.com and proceed with installation according to the instructions on screen displayed during the process. For more details, please refer to the **"Operating and Maintenance Instructions - CX Configurator"**.
- In order to configure the CX06 CPU module with a programmer/PC it is necessary to use the archive GSDML-V2.31-Camozzi-CX-20160111.xml. In addition to the slave characteristic data (ID Number, revision, etc.), the GSDML file contains the identifiers of the modules that are used for the hardware configuration of the PLC. The GSDML file of the CPU module can be downloaded from the website Camozzi.
  On the GSDML file, the following modules are descripted. Use these modules on the programmer/PC in order to realize the CPU module HW configuration.

Module description	Input bytes used on the PLC memory	Output bytes used on the PLC memory
1 Byte In	1	0
1 Byte Out	0	1
2 Byte In	2	0
2 Byte Out	0	2
4 Byte In	4	0
4 Byte Out	0	4
8 Byte In	8	0
8 Byte Out	0	8
16 Byte In	16	0
16 Byte Out	0	16
32 Byte In	32	0
32 Byte Out	0	32

64 Byte In	64	0
64 Byte Out	0	64
128 Byte In	128	0
128 Byte Out	0	128

- The CPU module CX06 is compatible with isochronous networks (IRT) Class 3. The management of I / O is not isochronous.
- The following steps describes some example about HW configuration realized with TIA portal software. It is assumed knowledge of the topics covered in the TIA software manuals.
  Used configurator: HW Configurator TIA Portal Version 13 SP1
- In order to import the GSDML file and icons on TIA Portal configurator, refer to the following steps:

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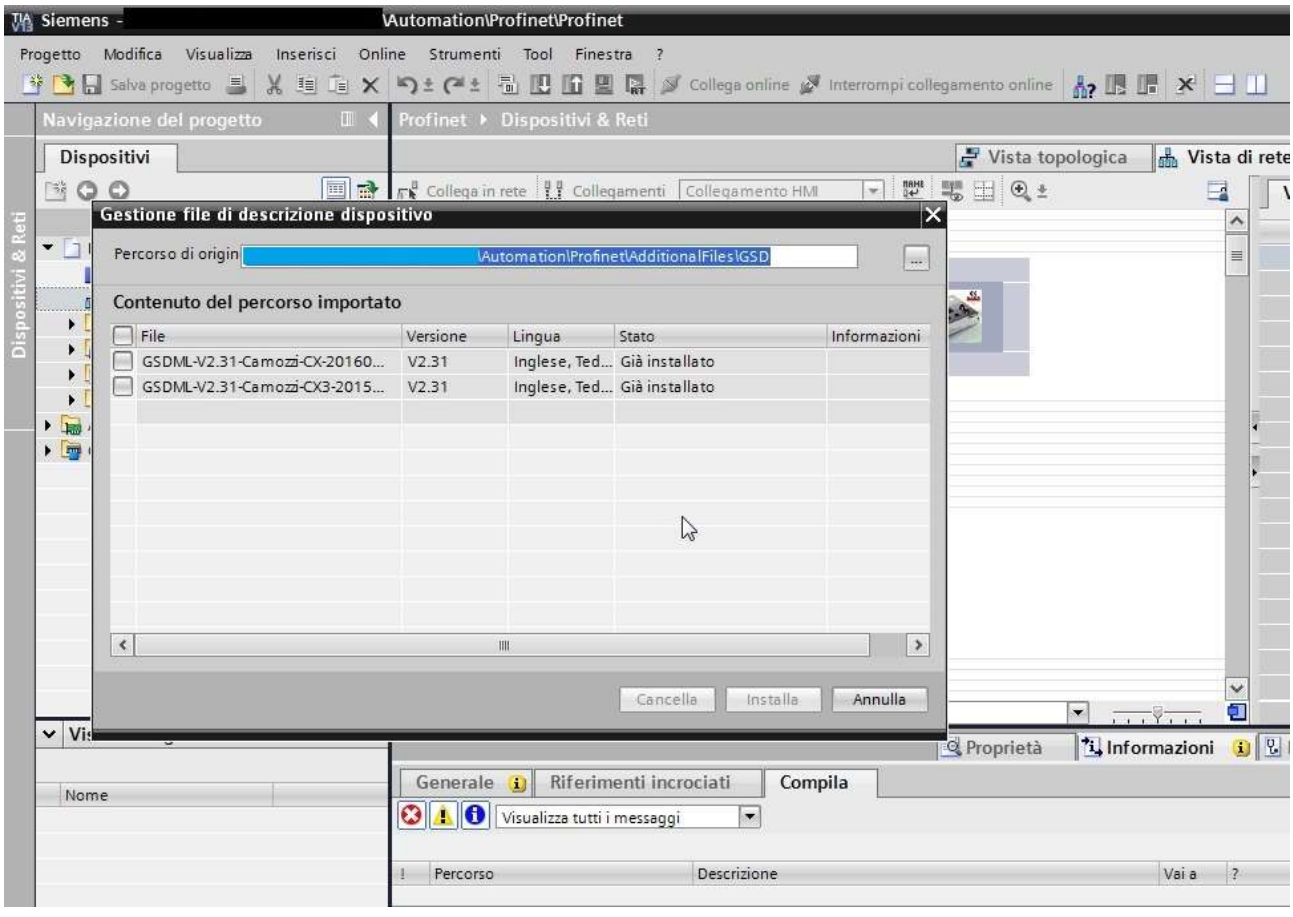
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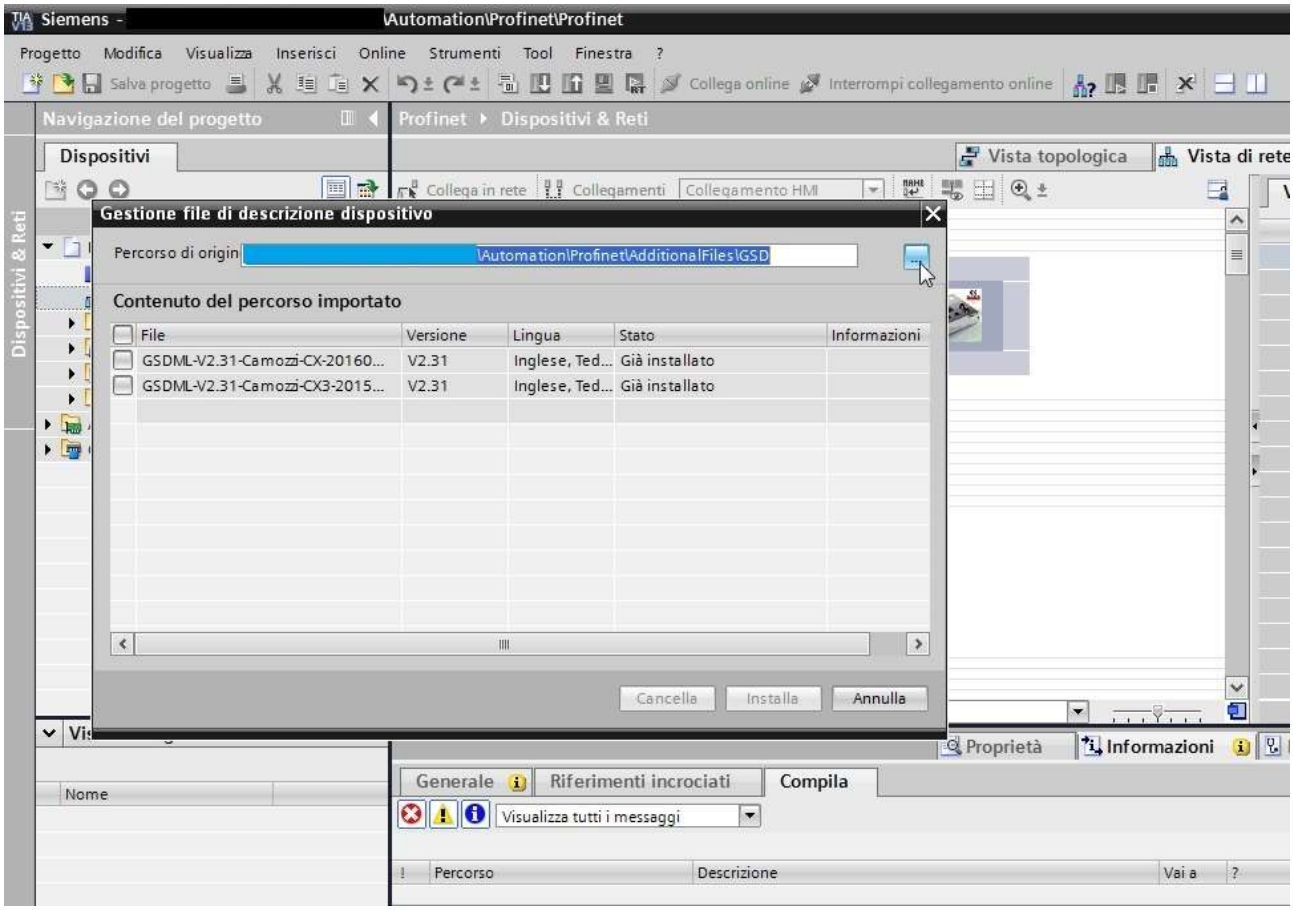
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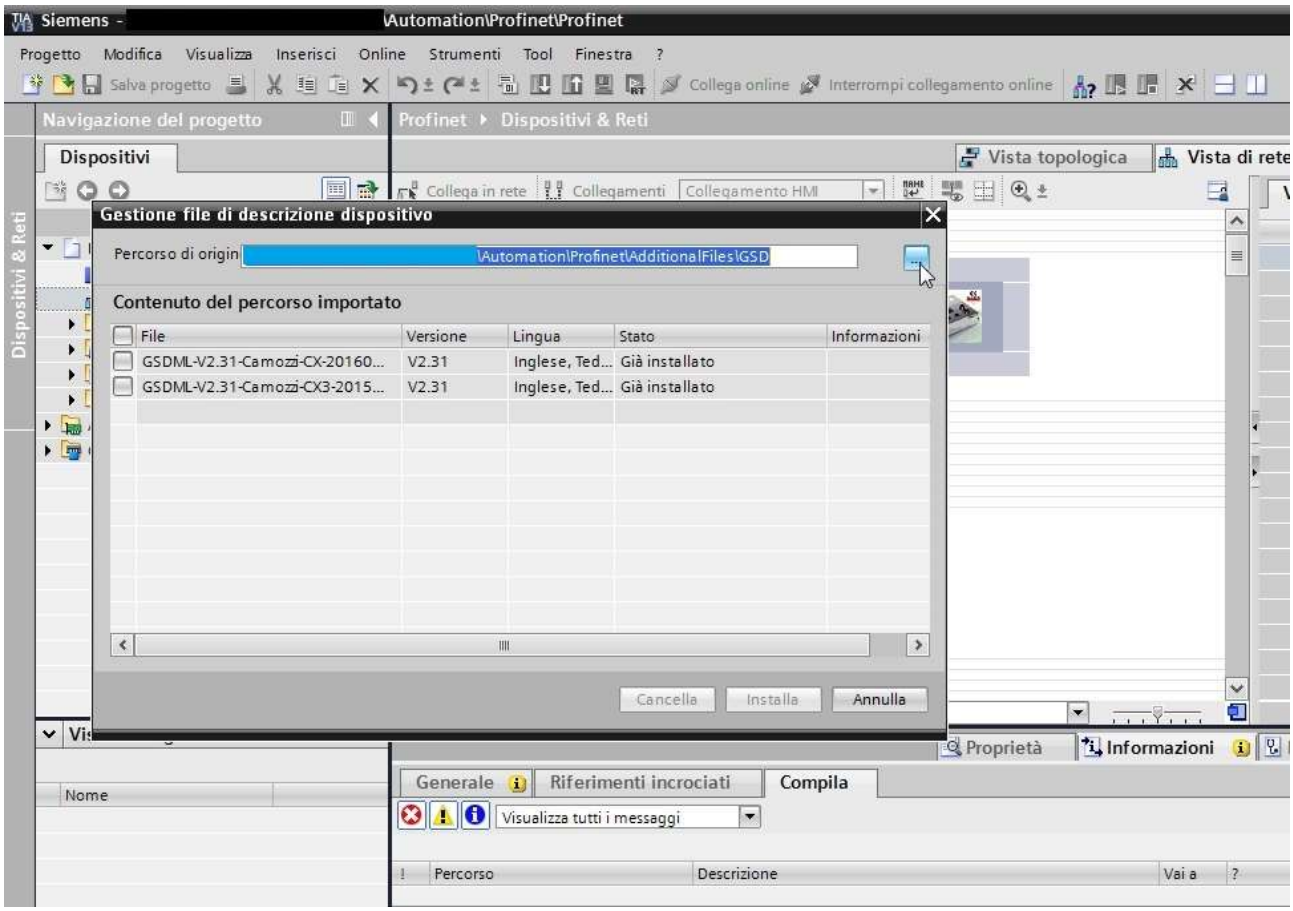
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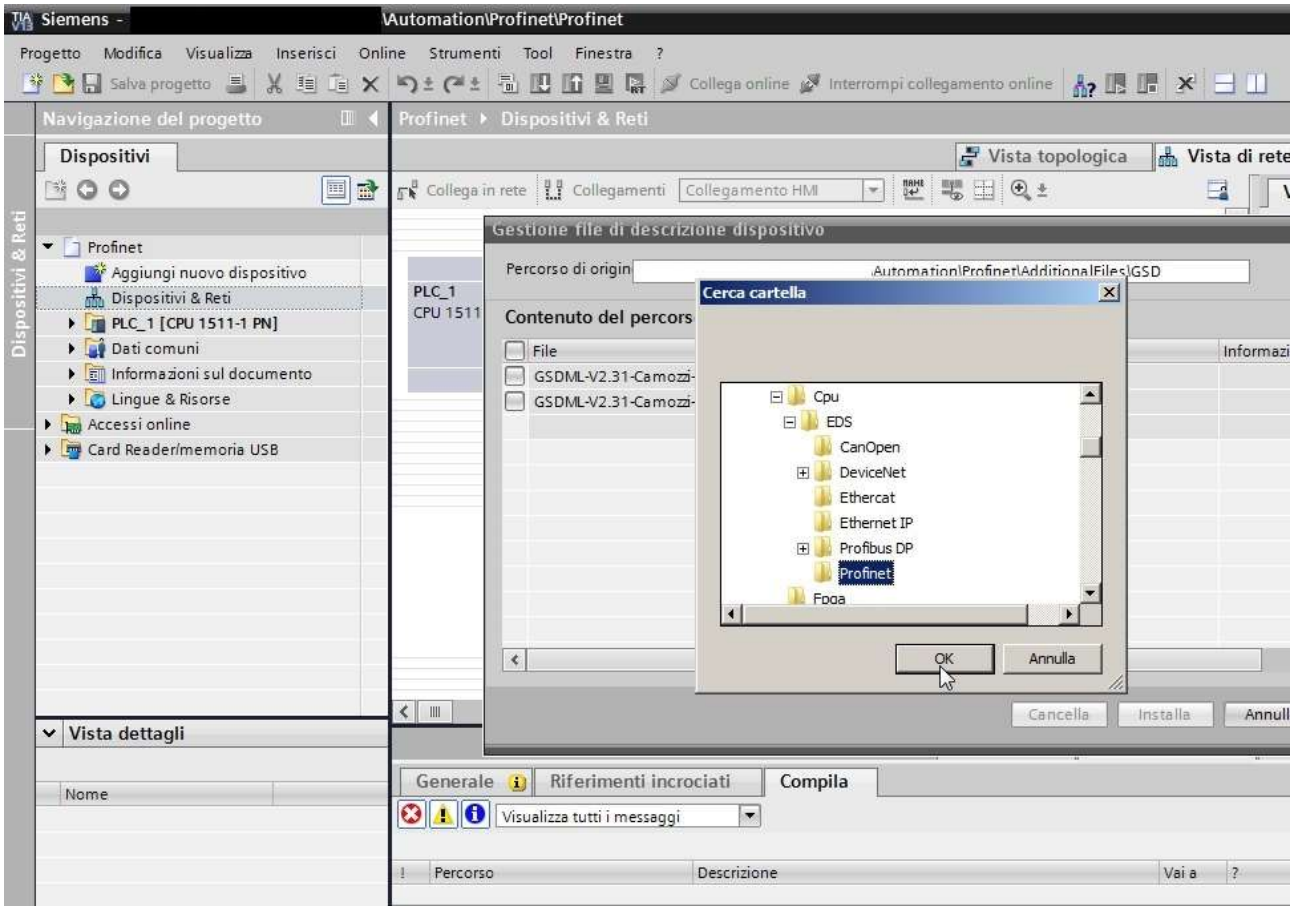
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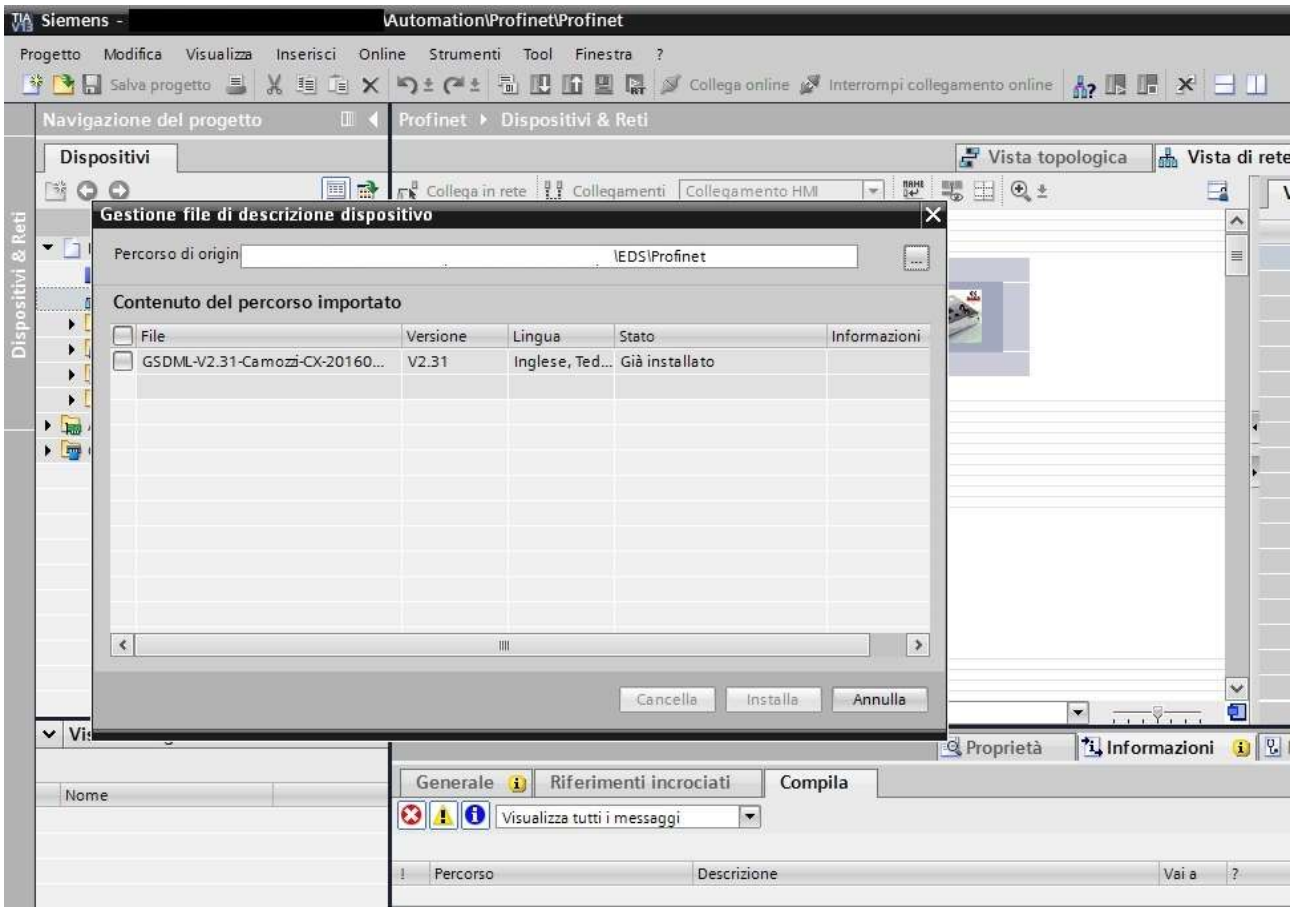
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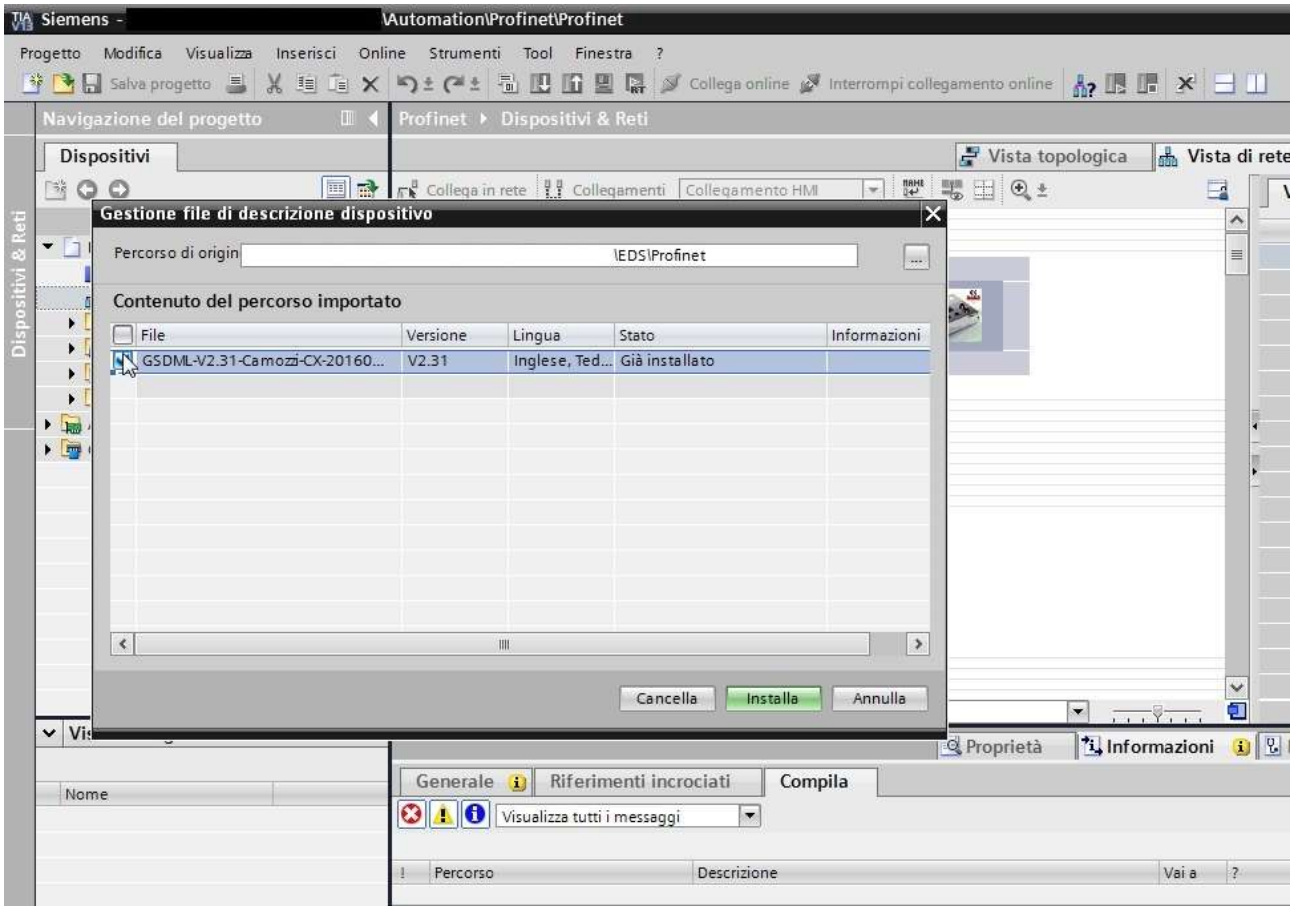
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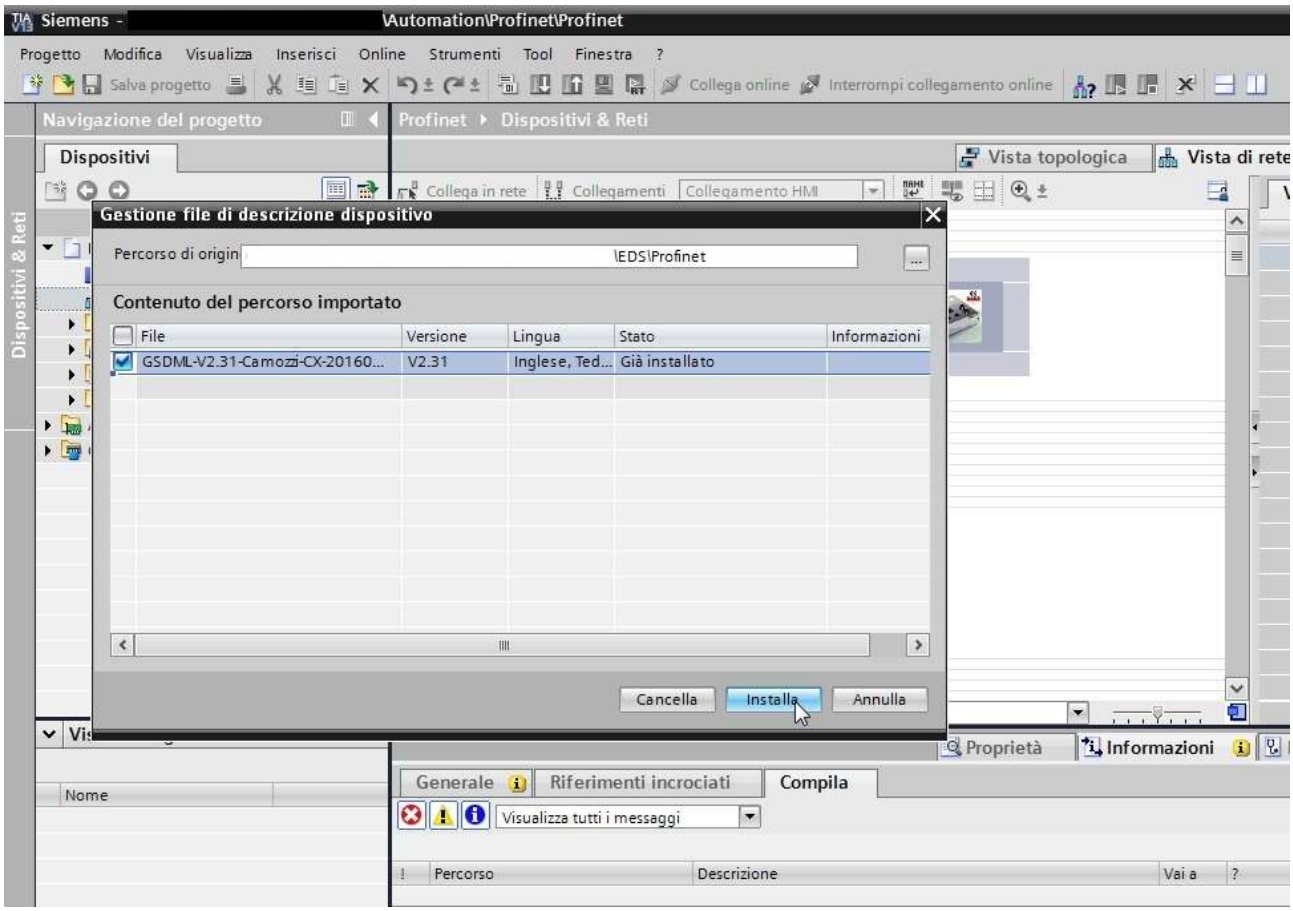
Vista topologica
Vista di rete
Collega in rete
Collegamenti
Collegamento HMI
Dispositivi & Reti
Gestione file di descrizione dispositivo
Percorso di origin
\EDS\Profinet
Contenuto del percorso importato
File
Versione
Lingua
Stato
Informazioni
GSDML-V2.31-Camozzi-CX-20160...
V2.31
Inglese, Ted...
Già installato
Cancella
Installa
Annulla
Proprietà
Informazioni
Generale
Riferimenti incrociati
Compila
Visualizza tutti i messaggi
Nome
Percorso
Descrizione
Vai a


Siemens - [redacted]\Automation\Profinet\Profinet
Progetto Modifica Visualizza Inserisci Online Strumenti Tool Finestra ?
Salva progetto
Collega online
Interrompi collegamento online
Navigazione del progetto
Profinet ▸ Dispositivi & Reti
Dispositivi
Vista topologica
Vista di rete
Collega in rete
Collegamenti
Collegamento HMI
Dispositivi & Reti
Gestione file di descrizione dispositivo
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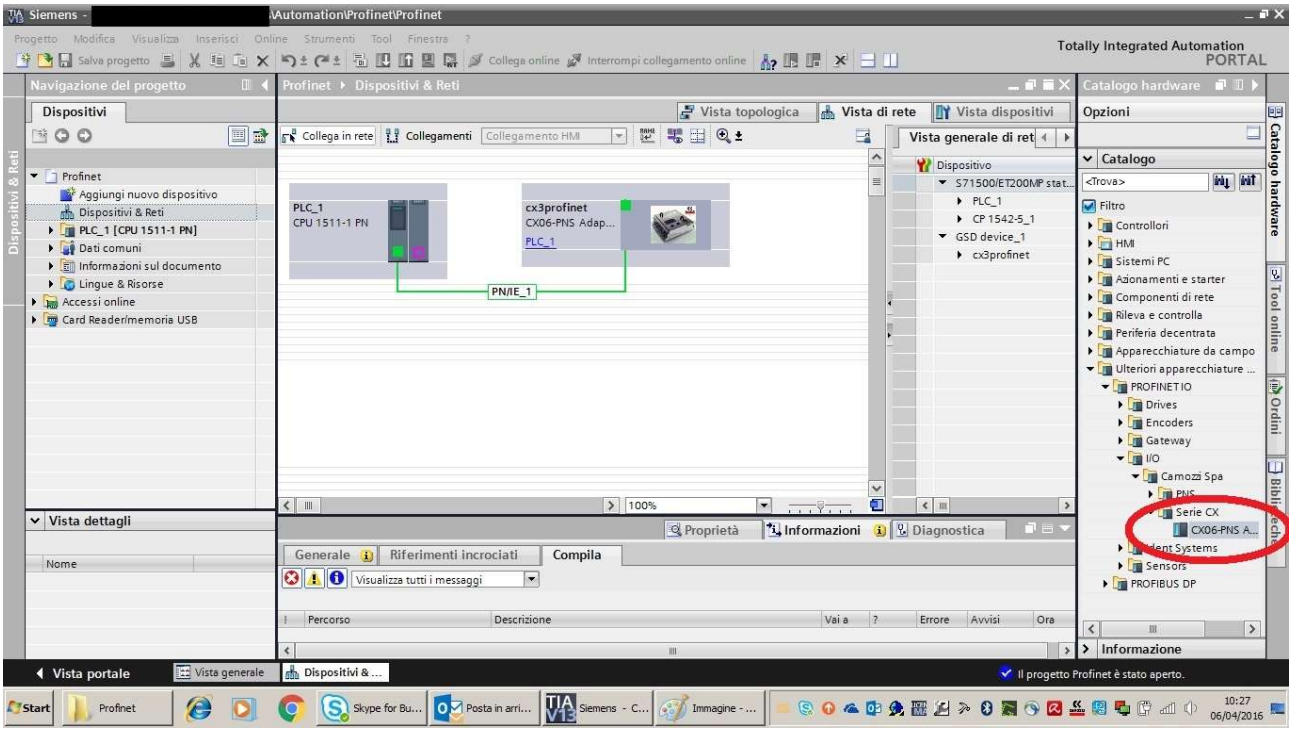
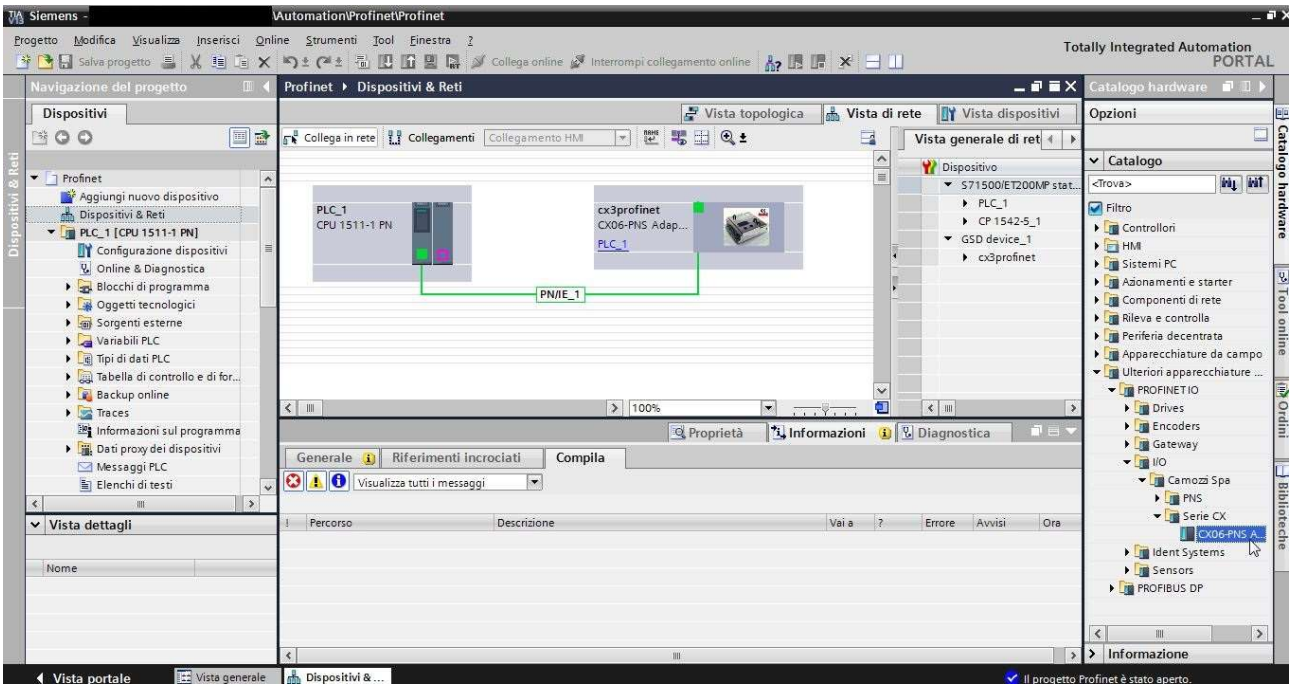
Compila
Visualizza tutti i messaggi
Nome
Percorso
Descrizione
Vai a

- When the procedure is completed, the slave node CX06 will be available with all its modules in the catalog of the HW configurator, on the folder: “Ulteriori apparecchiature da campo\ PROFINET IO\I/O\CAMOZZI SPA\Camozzi Spa\Serie CX\CX06 PNS Adapter.

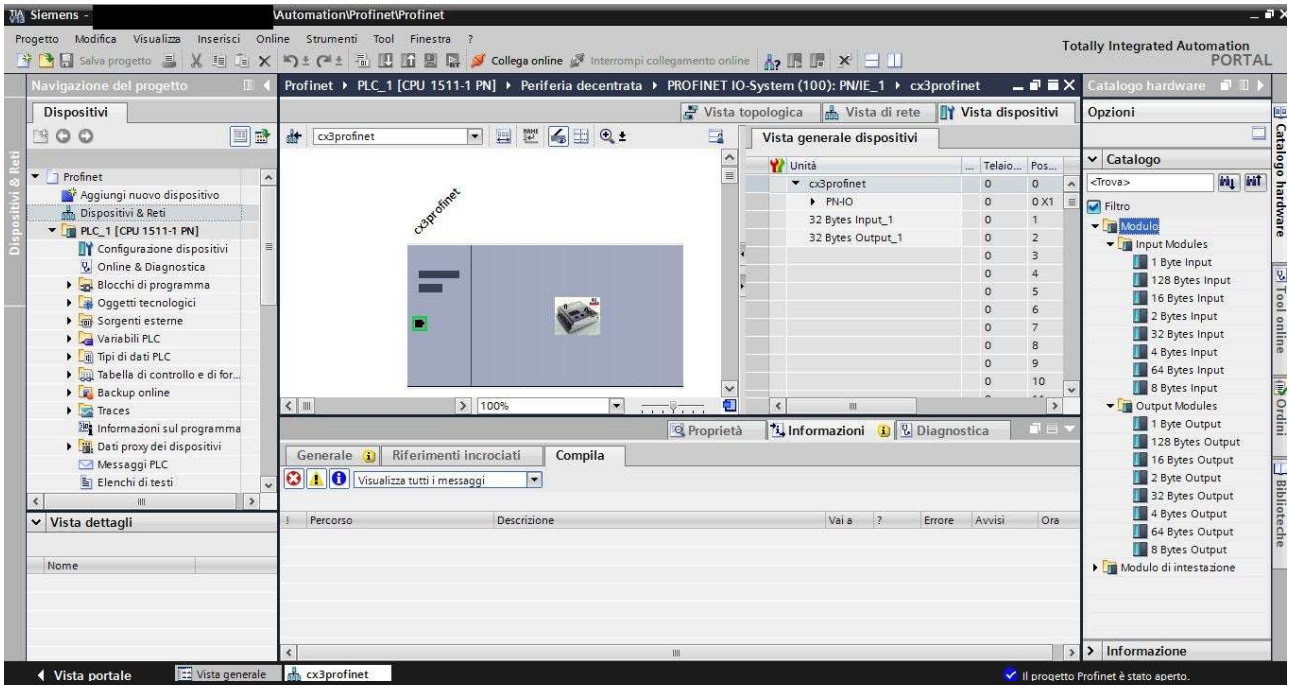


- The slave node CX06 can be dragged around the window that displays the network.



With a double click on the object you access to its properties and on the right side of the screen are displayed the modules that are used to configure the node. The various input and output modules can be dragged in the appropriate section until forming the desired data size. There are no specific limitations on the order in which the modules are placed in the configuration. The only constraint to be respected is the maximum number of bytes: 128 for inputs and outputs. The user must calculate the minimum size of the data necessary for the functioning of CX06 node and the modules connected to it. The information regarding the size of the data occupied by the individual modules and their meaning (correspondence between bits and input / physical output) are contained in the manual "**Operating and Maintenance Instructions - Bus System Internal Camozzi**".

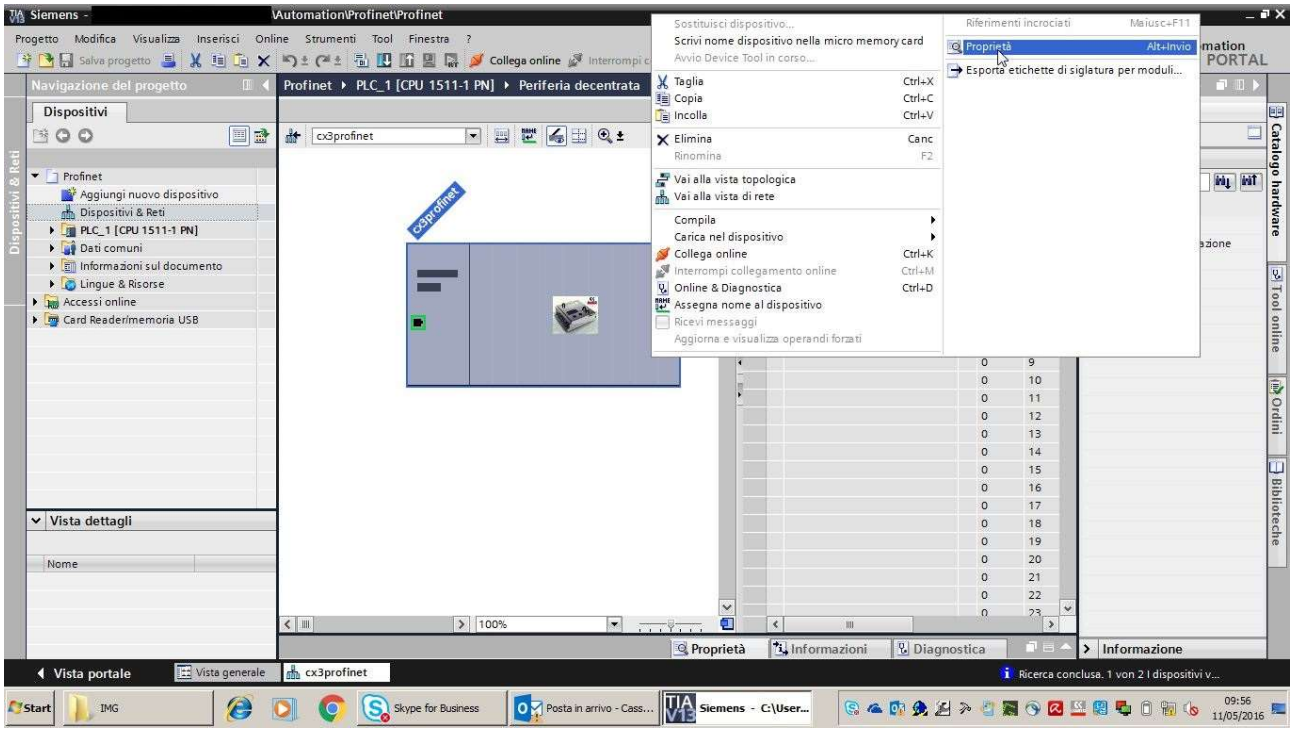
Furthermore the **CX-Configurator** software calculates automatically the size of the data used by the CX06 node and by the modules connected to it. For more details on using the configurator and in particular of this feature, refer to the manual "**Operating and Maintenance Instructions - CX Configurator**".

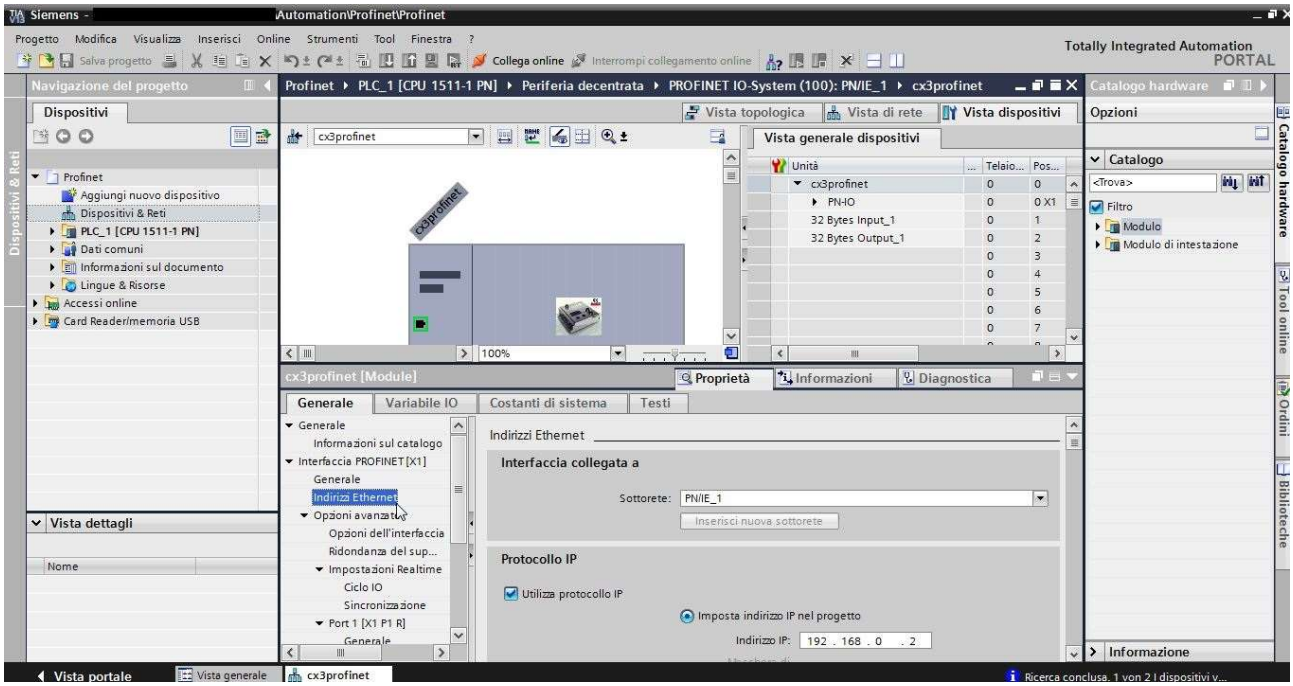


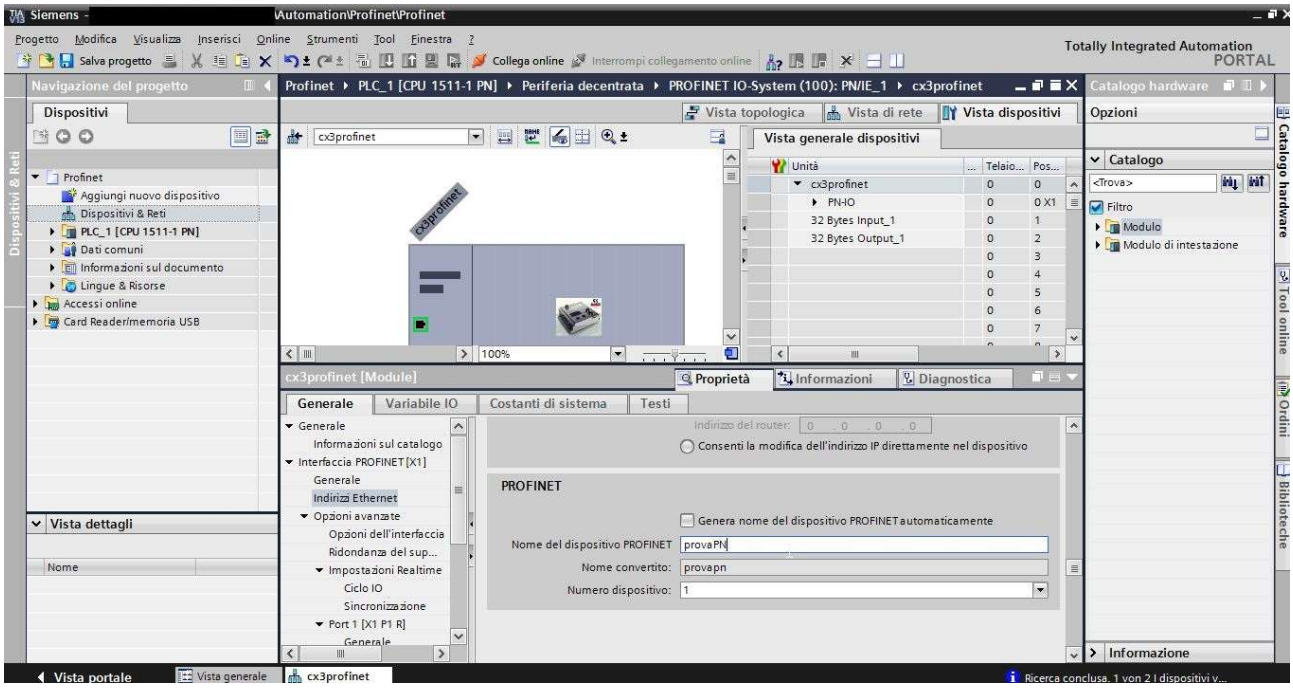
- The PLC recognizes the different nodes connected to the network through the node name and then assigns them all the necessary parameters to the Ethernet communication (address, gateway, and subnet mask). The default values of these parameters are as follows:
  Name: empty
  IP Address: 0.0.0.0
  Gateway: 0.0.0.0
  Subnet mask: 255.255.255.0

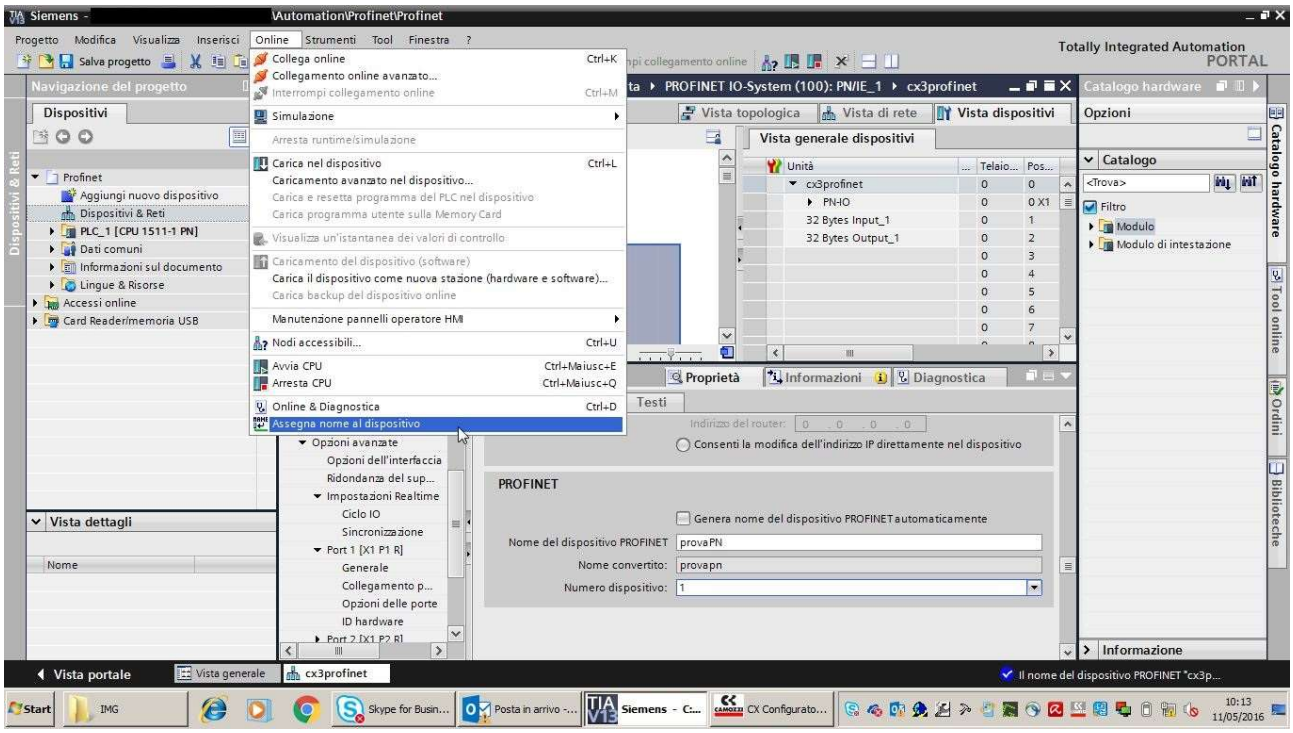
By default in the CPU module there isn't any name so it's necessary set its to start the communication.

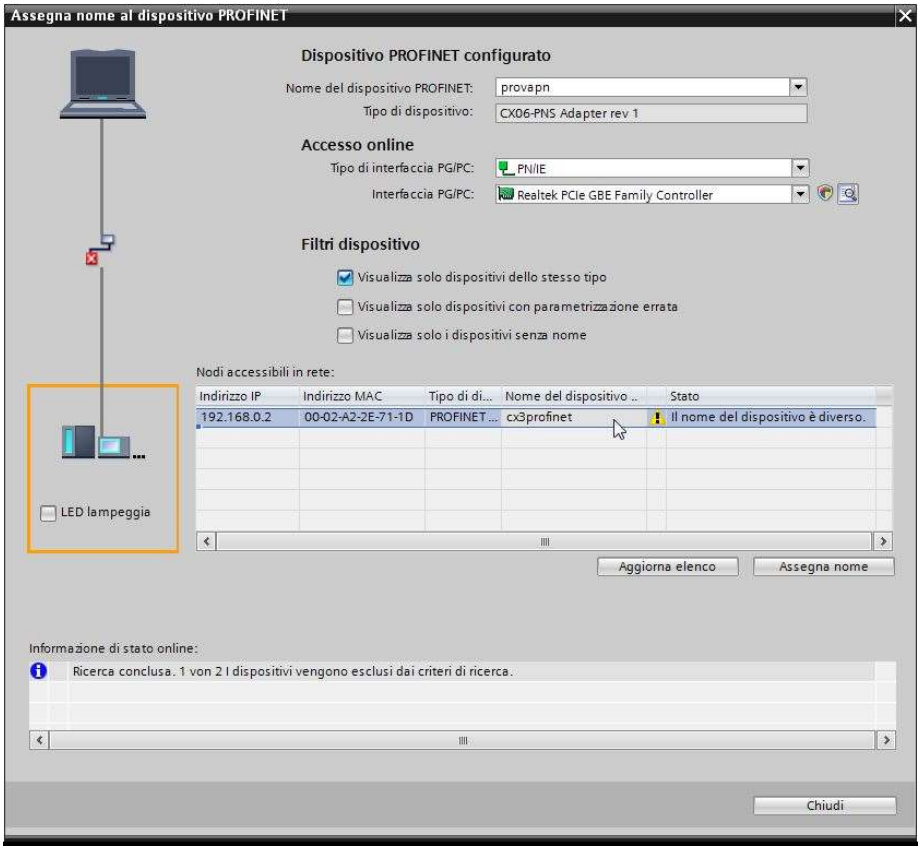
Is possible to change the node name within the TIA Portal Configurator using the following procedure.

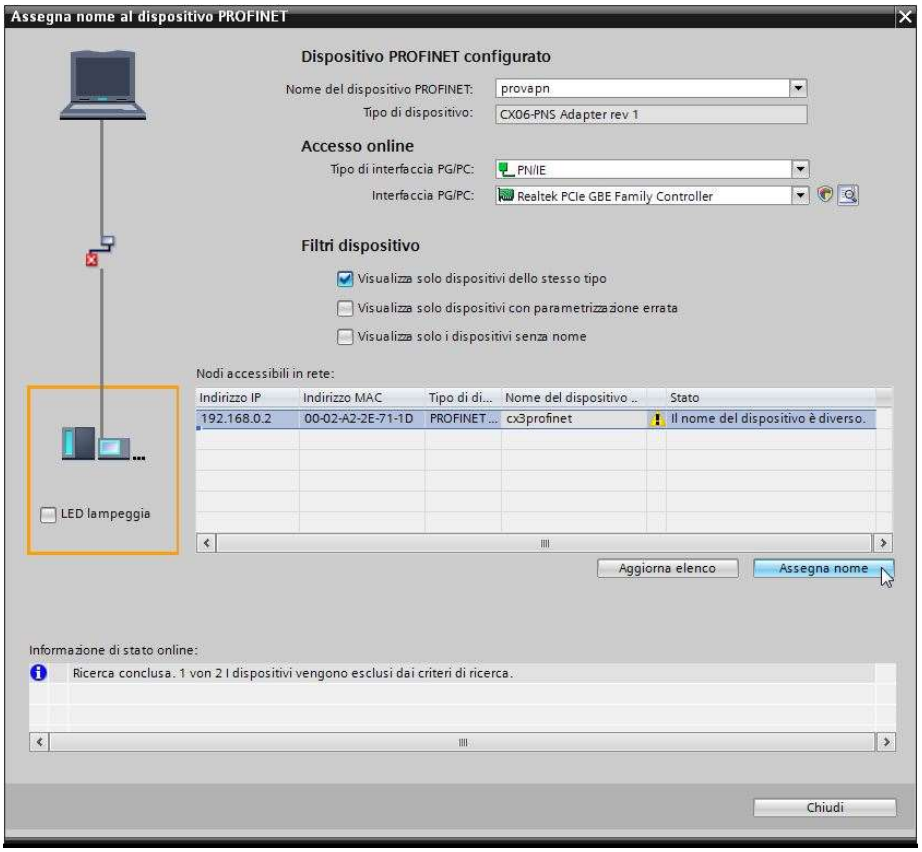


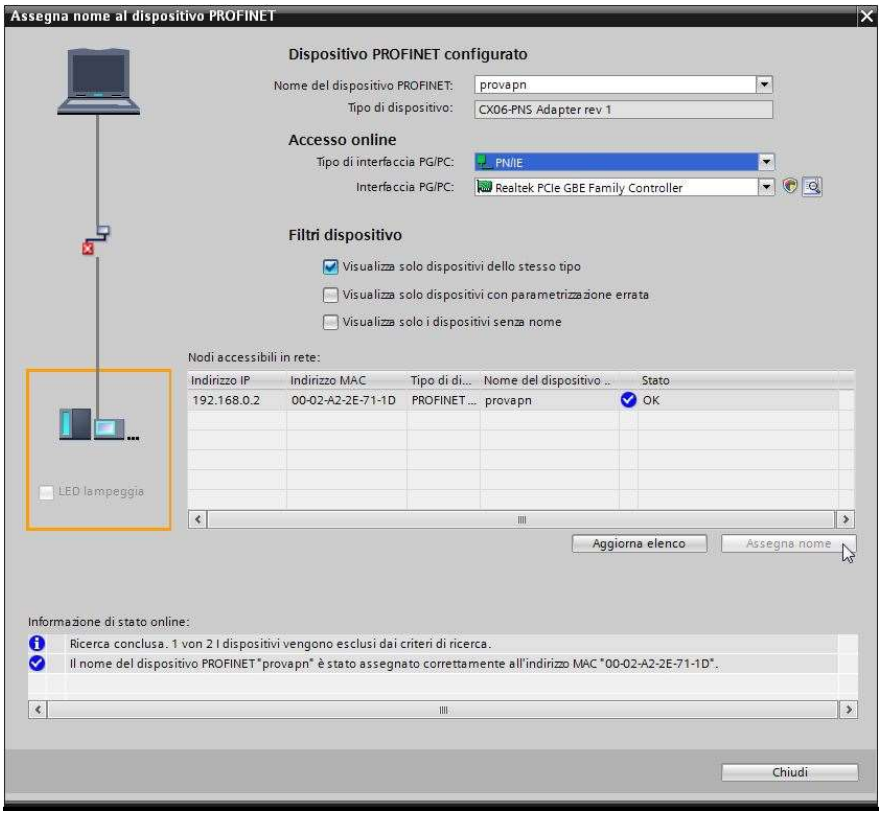



Totally Integrated Automation PORTAL
Navigazione del progetto
Dispositivi
Profinet
Aggiungi nuovo dispositivo
Dispositivi & Reti
PLC_1 [CPU 1511-1 PN]
Dati comuni
Informazioni sul documento
Lingue & Risorse
Accessi online
Card Reader/memoria USB
Vista dettagli
Nome
Profinet ▸ PLC_1 [CPU 1511-1 PN] ▸ Periferia decentrata ▸ PROFINET IO-System (100): PN/IE_1 ▸ cx3profinet
Vista topologica
Vista di rete
Vista dispositivi
Vista generale dispositivi
Unità
Telaio...
Pos...
cx3profinet
PN-IO
32 Bytes Input_1
32 Bytes Output_1
cx3profinet [Module]
Proprietà
Informazioni
Diagnostica
Generale
Variabile IO
Costanti di sistema
Testi
Informazioni sul catalogo
Interfaccia PROFINET [X1]
Indirizzi Ethernet
Opzioni avanzate
Opzioni dell'interfaccia
Ridondanza del sup...
Impostazioni Realtime
Ciclo IO
Sincronizzazione
Port 1 [X1 P1 R]
Consenti la modifica dell'indirizzo IP direttamente nel dispositivo
PROFINET
Genera nome del dispositivo PROFINET automaticamente
Nome del dispositivo PROFINET
provaPN
Nome convertito:
provapn
Numero dispositivo:
Opzioni
Catalogo
Filtro
Modulo
Modulo di intestazione
Informazione
Vista portale
Vista generale
cx3profinet


Online
Collega online Ctrl+K
Collegamento online avanzato...
Interrompi collegamento online Ctrl+M
Simulazione
Arresta runtime/simulazione
Carica nel dispositivo Ctrl+L
Caricamento avanzato nel dispositivo...
Carica e resetta programma del PLC nel dispositivo
Carica programma utente sulla Memory Card
Visualizza un'istantanea dei valori di controllo
Caricamento del dispositivo (software)
Carica il dispositivo come nuova stazione (hardware e software)...
Carica backup del dispositivo online
Manutenzione pannelli operatore HMI
Nodi accessibili... Ctrl+U
Avvia CPU Ctrl+Maiusc+E
Arresta CPU Ctrl+Maiusc+Q
Online & Diagnostica Ctrl+D
Assegna nome al dispositivo
Totally Integrated Automation PORTAL
Il nome del dispositivo PROFINET "cx3p...
Start
IMG
Skype for Busin...
Posta in arrivo -...
Siemens - C...
CX Configurato...
10:13
11/05/2016


Assegna nome al dispositivo PROFINET
Dispositivo PROFINET configurato
Nome del dispositivo PROFINET: provapn
Tipo di dispositivo: CX06-PNS Adapter rev 1
Accesso online
Tipo di interfaccia PG/PC: PN/IE
Interfaccia PG/PC: Realtek PCIe GBE Family Controller
Filtri dispositivo
Visualizza solo dispositivi dello stesso tipo
Visualizza solo dispositivi con parametrizzazione errata
Visualizza solo i dispositivi senza nome
Nodi accessibili in rete:
Indirizzo IP
Indirizzo MAC
Tipo di di...
Nome del dispositivo ..
Stato
192.168.0.2
00-02-A2-2E-71-1D
PROFINET ...
cx3profinet
Il nome del dispositivo è diverso.
LED lampeggia
Aggiorna elenco
Assegna nome
Informazione di stato online:
Ricerca conclusa. 1 von 2 I dispositivi vengono esclusi dai criteri di ricerca.
Chiudi


Assegna nome al dispositivo PROFINET
Dispositivo PROFINET configurato
Nome del dispositivo PROFINET: provapn
Tipo di dispositivo: CX06-PNS Adapter rev 1
Accesso online
Tipo di interfaccia PG/PC: PN/IE
Interfaccia PG/PC: Realtek PCIe GBE Family Controller
Filtri dispositivo
Visualizza solo dispositivi dello stesso tipo
Visualizza solo dispositivi con parametrizzazione errata
Visualizza solo i dispositivi senza nome
Nodi accessibili in rete:
Indirizzo IP
Indirizzo MAC
Tipo di di...
Nome del dispositivo ..
Stato
192.168.0.2
00-02-A2-2E-71-1D
PROFINET ...
cx3profinet
Il nome del dispositivo è diverso.
LED lampeggia
Aggiorna elenco
Assegna nome
Informazione di stato online:
Ricerca conclusa. 1 von 2 I dispositivi vengono esclusi dai criteri di ricerca.
Chiudi



You can also change the name of the node within the **CX-Configurator** configuration software. For more details on using the configurator and in particular of this feature, refer to the manual "**Operating and Maintenance Instructions - CX Configurator**".

- Esistono alcune regole per l'assegnazione del nome del nodo:
  - Length from 1 to 16 characters
  - The characters allowed in the labels are only alphanumeric: [a-z; 0-9, "-"]
  - Labels can not begin or end with the character "-"
  - Example: "dev1-machine1"
- Before starting up the configuration software **CX-Configurator**, connect the module to the PC using a standard USB cable (is available the accessory G11W-G12W-2), then connect the electrical power supply via connector M12. The CPU module is fitted with a Micro USB connector under the transparent panel. To access the connector, remove the transparent panel by loosening the screw securing it to the cover of the module. After completing all

settings, exit the software **CX-Configurator**, remove the USB cable and re-fit the transparent panel to restore the specified IP protection rating.

- On start-up of the software **CX-Configurator** the system verifies communication between the device and the PC where the configuration software is installed. In the event of communication failure, an error message is displayed.

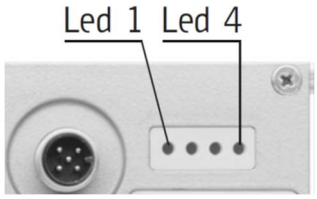
Type of fault	Causes	Remedy
Communication failure between CPU module and PC	Electrical power supply not connected	Connect the Electrical power supply by means of the M12 connector POWER.
	USB cable not connected	Connect the USB cable to one of the ports available on the PC and to the Micro USB connector under the transparent panel on the device.
	USB drivers not installed	Contact the Camozzi technical assistance service.

8. Use

- Ensure that the electrical power supply and all other operating conditions remain within the admissible values.
- The product may only be used in observance of the specifications provided; if these requirements are not met, the product may only be used on authorization by Camozzi.
- Observe the specifications on the identification data plate.

9. Troubleshooting and/or exceptional circumstances

- The following is the meaning of the LEDs on the top panel of the CPU Unit:



	Led 3 (SF)	Led 4 (BF)
OFF	No errors	No errors
Fixed	Watchdog Timeout; channel diagnostics message, generic or extended; system error	No configuration present; or low speed in the physical connection or no physical connection

 Blinking	Function “node blink test” activeted by controller (PLC)	Data exchange don’t work because some settings are not admitted
	Led 2 (LINK1)	**Led 1 (LINK2)**
 Fixed	The IN port isn’t connected to network	The IN port isn’t connected to network
 Fixed	The IN port is connected to network	The OUT port is connected to network
 Blinking	The IN port receive/send Ethernet frame	The OUT port receive/send Ethernet frame

10.Limitations on use

- Never exceed the technical specifications stated in the paragraph "General characteristics" and the Camozzi general catalogue.
- Do not install the product in environments where the air itself may generate hazards.
- With the exception of specific intended applications, do not use the product in environments where there is the risk of direct contact with corrosive gas, chemical products, salt water, water or steam.

11.Maintenance

- If performed incorrectly, maintenance may impair efficient operation of the product and harm persons in the vicinity.
- Check all conditions to prevent the inadvertent release of parts, and disconnect the power supply to enable the discharge of residual pressure from the system before performing work.
- Check whether it is possible to have the product serviced at a technical assistance centre.
- Never disassemble units when electrically powered.
- Shut off electric supplies before maintenance.
- Always remove accessories before maintenance.
- Always wear the correct personal protective equipment as envisaged by local authorities and in compliance with current legislation.
- In the event of maintenance, replacement of worn parts, use exclusively the original Camozzi kits and ensure that operations are only performed by specialized and authorized personnel. Otherwise product approval will be rendered invalid.

12. Environmental notes

- At the end of the product's life cycle, separate the relative materials to enable recycling.
- Observe all current standards in the country of use governing waste disposal.
- The product and relative parts all comply with the standards ROHS and REACH.

13. Contacts

Camozzi spa

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25126 Brescia - Italy

Tel. +39 030 37921

Fax +39 030 2400464

info@camozzi.com

www.camozzi.com

Product Certification

National and International Directives, Regulations and Standards

productcertification@camozzi.com

Technical assistance

Technical information

Product information

Special products

Tel.+39 030 3792390

service@camozzi.com