

目录

**Devices** ..... 3  
    ***Cosa sono i devices*** ..... 3  
    ***Devices disponibili*** ..... 3



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## Devices

### Cosa sono i devices

Con il termine *device* si identifica una categoria di oggetti software, pronti all'uso in un progetto [QView](#), atti a svolgere attività di supporto e di controllo, più o meno complesse, per risolvere le problematiche legate all'automazione dei sistemi.

Ogni tipo di *device* può essere replicato in più copie all'interno di un singolo progetto assegnando a ciascuno un nome identificativo diverso. Possono essere abilitati o disabilitati da programma. Possono utilizzare risorse hardware in comune tra loro.

### Devices disponibili

#### Devices di sistema

- [CALENDAR](#)
- [DATACELL](#)
- [DATASTORE](#)
- [HMI](#)
- [HMI2](#)
- [MMIQ](#)
- [MMIQ2](#)
- [QMOS](#)
- [RECDATA](#)

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#### Devices per conteggio e ingressi/uscite analogici

- [ABSCNT](#)
- [ANINP](#)
- [ANINP2](#)
- [DAC](#)
- [FREQ](#)
- [COUNTER2](#)
- [COUNTER3](#)

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#### Devices per posizionamento assi

```
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* [[:devices:ANPOS1]]
* [[:devices:ANPOS2]]
* [[:devices:CAMMING2]]
* [[:devices:CAMMING3]]
* [[:devices:CAMMING4]]
* [[:devices:CAMPOS]]
* [[:devices:EPICPOS]]
* [[:devices:GEAR1]]
* [[:devices:HEAD2]]
* [[:devices:INTERP]]
* [[:devices:JOINT1]]
* [[:devices:OOPOS2]]
* [[:devices:OOPOS3]]
```

#### Devices per comunicazione

- [CANOPEN](#)

- MODBUS
- SERCOM
- ETHERCAT

Instrument	Hardware level	Firmware version	ABSCNT	ANINP	ANPOS2	CALENDAR	CAMMING3	CANOPEN	COUNTER3	DAC	DATACELL	DATASTORE	EANPOS	ETHERCAT	FREQ	GANTRY	GEAR	HEAD	HEAD2	HMI	HMI2	INTERP	JOINT	MMIQ	MMIQ2	MODBUS	OOPOS3	QMOS	RECDATA	SERCOM	
D221	A	01		✓					✓	✓			✓		✓					✓	✓										
		02		✓					✓	✓					✓						✓	✓						✓			
		03		✓						✓	✓					✓			✓		✓	✓									
D231	A	02		✓			✓		✓	✓			✓		✓					✓	✓					✓			✓		
		01		✓					✓	✓				✓		✓					✓	✓									
D983	A	01		✓					✓	✓			✓		✓						✓	✓					✓				
		02		✓					✓	✓					✓						✓	✓					✓				
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R100	C	10		✓			✓	✓	✓					✓					✓	✓											
R201	A	01		✓					✓	✓			✓		✓						✓	✓									
		02		✓					✓	✓					✓						✓	✓									
		03		✓						✓	✓					✓						✓	✓								
R401	B	10	✓	✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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R502	B	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-P11	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-P31	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-P44	F	10	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓						✓	✓					✓	✓	✓	✓	✓
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J1-P51	F	10	✓	✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-P71	F	10	✓	✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-P74	F	10	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓						✓	✓					✓	✓	✓	✓	✓
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J1-K11	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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J1-K31	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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C1-R11	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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C1-R20	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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		30		✓	✓	✓	✓		✓	✓	✓		✓	✓		✓	✓					✓	✓				✓	✓	✓	✓	✓
C1-R44	F	10	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓						✓	✓					✓	✓	✓	✓	✓
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		30	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓						✓	✓					✓	✓	✓	✓	✓
C1-R31	F	10		✓		✓		✓	✓	✓		✓	✓		✓	✓					✓	✓					✓	✓	✓	✓	✓
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