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IL MANUALE DI GEVINO civile v1.3

Compatible Arduino Zero
Manual v1.3

GEVINO products have been designed for civil, domestic, corporate or industrial environments. They have high voltage and high current inputs and outputs, protected against disturbances, electrostatic discharges, magnetic fields, inductive loads, extra voltages and currents.

They comply with EC directives.

It is possible to customize them for more than 50 pieces.

To program Gevino simply connect it to your computer with a USB cable, write some instructions, and press the «Upload» button. It is very rich in libraries for an infinity of modules and sensors. The instructions are quite simple and understandable.

The programming software, also called IDE (Integrated Development Environment), contains many examples from which to take inspiration to write their own listings.

I prodotti GEVINO sono stati progettati per ambienti civili, domestici, aziendali o industriali. Hanno ingressi e uscite ad alta tensione, alta corrente, protetti contro disturbi, scariche elettrostatiche, campi magnetici, carichi induttivi, extra tensioni e correnti.

Sono conformi alle direttive CE.

E' possibile personalizzarle per una quantità superiore a 50 pezzi.

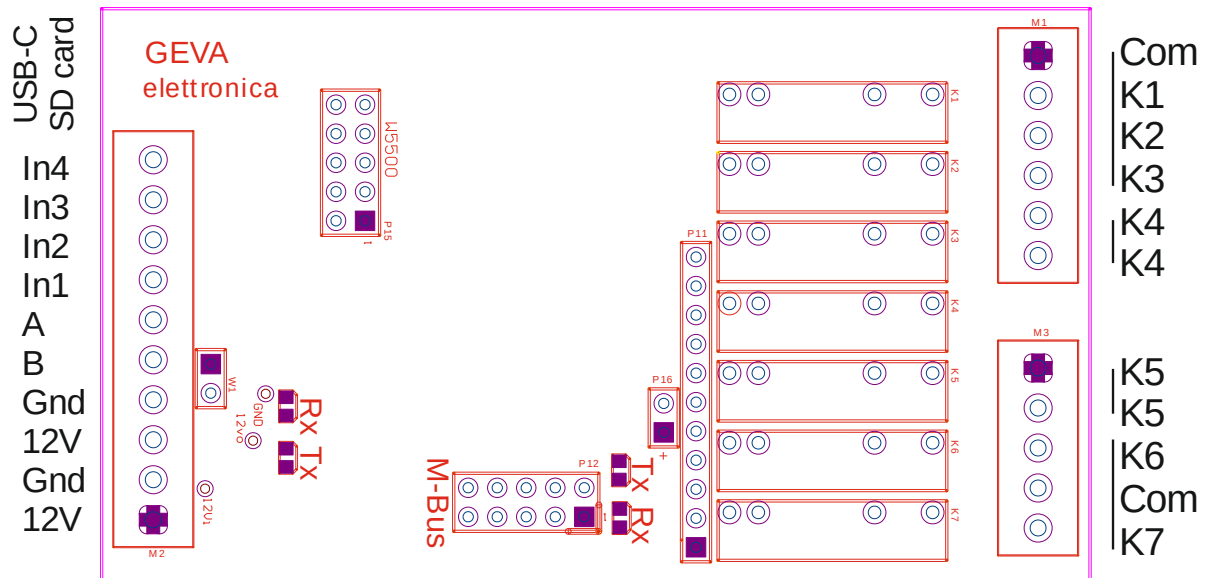
Per programmare Gevino è sufficiente collegarlo al proprio computer con un cavo USB, scrivere qualche istruzione, e premere il tasto «Upload». E' ricchissimo di librerie per un' infinità di moduli e sensori. Le istruzioni sono abbastanza semplici e comprensibili.

Il software di programmazione, chiamato anche IDE (Ambiente Integrato di Sviluppo), contiene numerosi esempi da cui prendere spunto per scrivere i propri listati.

Changelog:

V1.3

RS485 TxEn from A0 to D2



JUMPER

W1 = Line Terminator *Terminatore di Linea* 120 Ohm for RS485

Basic model, only with *Modello base, solo con K5, K6, K7*

NOTE

You can update the program in the GEVINO from the Internet or SD card with a dedicated bootloader.

Si può aggiornare il programma nel GEVINO da internet o SD card con un bootloader dedicato.

Specs / Specifiche

- Vcc 12V
- 3 relays 250VAC/30VDC 5A
- 4 Inputs 12V
- All input can be interrupt. 10Khz max input frequency
- USB-C
- Micro SD
- 19 Leds
- 5 Serial (EPS-SIM800-RS485-Mbus-USB)
- CPU ATSAM21G18 - Arduino ZERO M0 compatible.
- 48 Mhz, 32-bit ARM® Cortex®-M0+ processor.
- Flash 256KB, RAM 32K
- -40°C +85°C Working temperature

Optional

- 4 Relays, Total 7, Only in the absence of the Ethernet module.
- Ethernet W5500
- WiFi ESP01
- Bluetooth HC-xx
- SIM modem SIM800L
- M-Bus master
- RTC with battery
- 220v to 12v Internal power supply.
- OLED display 128x128 pixel
- Bootloader to upload firmware from Micro SD

Utilization / Utilizzo

ARDUINO IDE <https://www.arduino.cc/en/main/software>
Install zero Compiler <https://www.arduino.cc/en/Guide/ArduinoZero>
Choose Board «Arduino/Genuino Zero (Native USB Port)»
Use the Arduino Zero reference guide.
See also the GEVINO Common manual

Accessories / Accessori

Open GEVINO Command Document for other module

M-BUS MASTER ON SERIAL2



SERCOM

Six Serial Communication Interfaces, each configurable to operate as either:

- USART with full-duplex and single-wire half-duplex configuration
- I2C up to 3.4MHz
- SPI
- LIN slave

<https://www.arduino.cc/en/Tutorial/SamdSercom>

<https://learn.adafruit.com/using-atsamd21-sercom-to-add-more-spi-i2c-serial-ports/overview>

SerialUSB	USB	CS	Reset	Int	Tx En
Serial	ESP-WiFi Bluetooth				
Serial1	RS485				D2 (ex A0)
Serial2	M-Bus Master				
Serial3	SIM800L Bluetooth				
I2C	RTC DS3231				
"	OLED				
SPI	SD card reader	12			
"	W5500 ETH	5	---	---	

