

# User Manual



## iNano-I O connection detail

CN3 Connector.

Pin No.

1. + 5V
2. GND
3. Ch1.
4. Ch2.
5. Ch3.
6. Ch4.
7. Ch5.
8. Ch6.
9. Ch7.
10. Ch8.
11. Ch9.
12. Ch10.
13. Ch11.
14. Ch12.
15. Ch13.
16. Ch14
17. Ch15.
18. Ch16.
19. N.C
20. GND

CN2 Connector.

Pin No.

1. Ch17.
2. Ch18.
3. Connect 10 mfd Cap.(optional)
4. Ch19.
5. Ch20.
6. Ch21.
7. Ch22.
8. Ch23.
9. Ch24.
10. Ch25.
11. Ch26.
12. Ch27.
13. Ch28.
14. Ch29.
15. Ch30.
16. Do not connect
17. Ch31.
18. N.C
19. N.C
20. GND



Please note that when the card is first connected to PC, all channels are put into Input mode. In this mode each pin is connected to internal weak pull up resistor. So when you try to read the channel without providing any input to the channel pin, it will reply "1" for input High.

In this condition, detecting closure of push to on switch or micro switch becomes very easy. Just connect one terminal to any channel & other terminal to ground. So when switch is open the command to get the input of that channel will provide "1". When the switch is pressed, it will ground the input pin. In this condition, the command to get the input of that channel will provide "0".



iNano Commands -

BORD - Provides board name.

VERS - Provides firmware number.

SO01 to SO31 - Set Output of Channel 1 to Channel 31 to 1 (High).

RO01 to RO31 - Reset Output of Channel 1 to Channel 31 to 0 ( Low).

GI 01 to GI 31 - Get Input value of Channel 1 to Channel 31.  
The board will reply back with "1" for High or "0" for Low.

For example if you want to set output of say Channel 15 to High or 1, please provide command - SO15. Please note that all commands are to be provided in CAPS only.

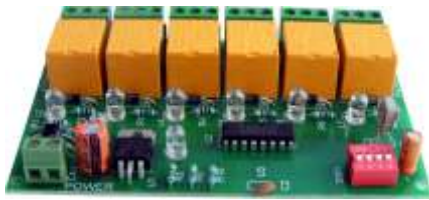
If you want to Reset ( make output low - 0) any channel, say channel 6, then provide command RO06.

If you want to get input value of channel 9, the command will be GI 09. The board will reply back with "0" or "1" as per condition of input channel pin 9.

Setting the card when you first connect to PC is same as that of U452. Please refer to U452 User Manual for more information.

If you have any questions, want any assistance, want us to develop any special products for you just contact us at [support@iknowvations.in](mailto:support@iknowvations.in).

We have other products also that might interest you like -



6 channel I R Remote control Board - AZ6CR-03

12 channel I R Remote control Board - iR-12C



U452 is an USB based Relay Card having 4 relays, up to 16 I/O channels & 8 ADC channels. The ADC resolution is 8/10/12 bits user selectable.

R242 is an RS232 based Relay Card having 4 relays, up to 9 I/O channels & 4 ADC channels. The ADC resolution is 10 bits.



Ethernet based DAQ & I/O card.

6 digit 7 segment Multipurpose LED Counter



For more information visit - [www.iknowvations.in](http://www.iknowvations.in)



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