

ARDUINO CONNECTORS

The diagram illustrates the pin headers of an Arduino board, categorized into three main sections: POWER, AD (Analog), and IO (Digital).

- POWER:** A 5-pin header labeled **HEADER_1x5**. The pins are numbered 1 to 5. Pin 1 is marked with a red 'X' and is not connected. Pin 2 is **VCCIO**, Pin 3 is **RESET**, Pin 4 is **3.3V**, Pin 5 is **5V**, and Pin 6 is **GND**. Pin 7 is **GND** and Pin 8 is **VIN**.
- AD1:** A 6-pin header labeled **HEADER_1x6**. The pins are numbered 1 to 6. Pin 1 is **AD0**, Pin 2 is **AD1**, Pin 3 is **AD2**, Pin 4 is **AD3**, Pin 5 is **AD4/SDA**, and Pin 6 is **AD5/SCL**.
- IO1:** A 10-pin header labeled **HEADER_1x10**. The pins are numbered 1 to 10. Pin 1 is **IOB**, Pin 2 is **IO9**, Pin 3 is **IO10/SS**, Pin 4 is **IO11/MOSI**, Pin 5 is **IO12/MISO**, Pin 6 is **IO13/SCK**, Pin 7 is **GND**, Pin 8 is **AREF**, Pin 9 is **AD4/SDA**, and Pin 10 is **AD5/SCL**.

POWER_PROTO1

Header Pin	Module Pin	Signal
1	1	(Crossed out)
2	2	VCCIO
3	3	RESET
4	4	3.3V
5	5	5V
6	6	GND
7	7	GND
8	8	VIN

IOH_PROTO1

Header Pin	Module Pin	Signal
10	10	AD5/SCL
9	9	AD4/SDA
8	8	AREF
7	7	GND
6	6	IO13/SCK
5	5	IO12/MISO
4	4	IO11/MOSI
3	3	IO10/SS
2	2	IO9
1	1	IO8

AD_PROTO1

Header Pin	Module Pin	Signal
6	11	AD5/SCL
5	12	AD4/SDA
4	13	AD3
3	14	AD2
2	15	AD1
1	16	AD0

IO0_PROTO1

Header Pin	Module Pin	Signal
8	17	IO7
7	18	IO6
6	19	IO5
5	20	IO4
4	21	IO3
3	22	IO2
2	23	IO1/TXD
1	24	IO0/RXD

JP1

Header Pin	Module Pin	Signal
1	25	IO4
2	26	IO3
3	27	SHIELD_TXD
4	28	SHIELD_RXD
5	29	IO1/TXD
6	30	IO0/RXD

HEADER_2x3_180

The diagram illustrates a 3x16 pin protoboard layout. It features three vertical columns of 16 pins each, labeled 1 through 16 on the left side of each column. The top row of pins is labeled 'PROTOBOARD1' and the bottom row is labeled 'PROTO_Bx16'. The middle row of pins is labeled 'PROTO_5V1', 'PROTO_GND1', and 'PROTO_3.3V1' from left to right. The middle row of pins is connected to a 5V power source (labeled '+5V') and a 3.3V power source (labeled '+3.3V'). The middle row of pins is also connected to a 100nF capacitor (labeled 'C3') and a 100nF capacitor (labeled 'C5'). The middle row of pins is connected to a 1x16 header (labeled 'HEADER_1x16') and a 1x16 header (labeled 'HEADER_1x16').

CONTROL CHAIN CONNECTOR

The diagram illustrates the electrical connections for a control chain connector. It features two RJHSE-5084 connectors, J1 and J2, which are 8-pin connectors. The components and their connections are as follows:

- Resistors:**
 - R10, R11, R12, and R13 are 470R resistors connected to pins 1, 2, 3, and 4 of J1, respectively.
 - R1 is a 120R resistor connected to pin 1 of J2.
 - R9 is a 1013/SCK component connected to the ground of J1.
- Capacitors:**
 - C1 is a 100uF capacitor connected to pin 1 of J2.
 - C2 is a 100nF capacitor connected to pin 1 of J1.
- Power and Grounding:**
 - A 9V battery is connected to the ground of J2.
 - The ground of J1 is connected to the ground of J2.

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