

328 Arduino pinout

• A5
RX A4
TX A3
2 A2
3 A1
4 A0
V G
G ARF
X1 AV
X2 13
5 12
6 11
7 10
8 9

328 ISP target pinout

• NC

V G
G
XTL AV
SCK13
MISO12
MOSI11

NC

Nano Arduino pinout

13 12
3V3 11
ARF 10
A0 9
A1 8
A2 7
A3 6
A4 5
A5 4
A6 3
A7 2
VCC GND
RST RST
GND RX
VIN TX

Nano ISP programmer
pinout

13SCK MISO12
3V3 MOSI11
ARF R10
A0 XTL9
A1 8
A2 7
A3 6
A4 5
A5 4
A6 3
A7 2
VCC G
RST RST
GND RX
VIN TX

328 pin numbers

• 28
2 27
3 26
4 25
5 24
6 23
7 22
8 21
9 20
10 19
11 18
12 17
13 16
14 15

328 ISP target pinout fat

• NC

V G
G
XTL AV
SCK13
MISO12
MOSI11

NC NC

Nano HV programmer
pinout

RDY Vsup
OE
WR
12VG BS2
0 XA0
BS1 7
XTL1 6
XA1 5
PAGEL 4
3
2
VCC GND

GND
VIN 1

Nano ISP programmer
pinout fat

13SCK MISO12
3V3 MOSI11
ARF RSTSEL10
A0 XTL9
A1 8
A2 7
A3 6
A4 5
A5 4
A6 3
A7 2
VCC G
RST RST
GND RX
VIN TX

HV resistor row pinout

•

RDY
OE BS2
WR 7
BS1 6
V G
G
XTL1 V
5
XA0 4
XA1 3
PAG 2
0 1

HV resistor row label

RDY
OE
WR
XTL1
BS2
BS1
XA0
XA1
PAG
7
6
5
4
3
2
1
0

Nano HV programmer
pinout fat

RDY Vsup
OE
WR
12VG BS2
0 XA0
BS1 7
XTL1 6
XA1 5
PAGEL 4
3
2
VCC GND

GND
VIN 1

Notes:
Reset pin is pin 1 of the ATmega328P target and is marked with a dot.
Use datasheet to determine other target pinouts.
Label text can be printed out and use double sided tape, 3M Post-it adhesive, Xyron Create-a-Sticker machine, or other methods to stick to breadboard, chip, or Arduino.
Fat pinouts are made so you can slice them into 2 halves and put on opposite sides of breadboard instead of sticking them to the top of Arduino or chip.
NC means no connection and is included in some pinouts to help line up the sticker.
Wiring to Arduino pin number scheme is same as HVRescue_Shield 2.12 except data line 0 is moved from RX to A1, which was occupied by the run button on HVRescue_Shield 2.12.
12V gate pin on A0 is inverted, when low 12V is applied to target Reset line, this is opposite of HVRescue_Shield 2.12.
Font is Cambria 6 point in Mac Word to allow for alignment with 0.1 inch pin spacing. Print with 100% scaling.

328 HV pinout fat

• NC

RDY
OE BS2
WR 7
BS1 6
V G
G
XTL1 V
5
XA0 4
XA1 3
PAG 2
0 1

Pro Mini Arduino pinout

1 RAW
0 GND
RST RST
GND VCC
2 A3
3 A2
4 A1
5 A0
6 13
7 12
8 11
9 10

Pro Mini HV programmer
pinout

1 RAW
GND
GND VCC
2 XTL1
3 BS1
4 0
5 12VG
6 RDY
7 Vsup
XA0 OE
BS2 WR

A4=XA1
A5=PAGEL

Uno/Mega Arduino pinout

AREF
GND
13
12
11
10
9
8

7
6
5
4
3
2
1
0

IOR
RST
3V3
5V
GND
GND
VIN

A0
A1
A2
A3
A4
A5

Uno/Mega HV programmer

GND
RDY
Vsup
OE
WR
BS2
XA0

7
6
5
4
3
2
1

VCC
GND
GND
VIN

12VG
0
BS1
XTL1
XA1
PAGEL