biotronics.eu

qiWELLNESS (miniVOLL)

Version: 2019-06-15 NANO 1.2

Mainboard

EAV+

I - 1
ACTIVE EL.

VEGATEST
SWITCH
(1)

EAV-

VEGATEST
SWITCH
(1)

VEGATEST
SWITCH
(2)

ALWAYS ON
SWITCH

II-1
ACTIVE EL.

II-3
PEN BTN

ALWAYS ON
SWITCH

II-2
AUX EL.

VEGATEST
SWITCH
(2)

I - 3
PEN BTN

I - 2
AUX EL.

100n
100n
LP2950
Z2
IL300
100R
MCP 6141
33k
220k
D5
10n
22k
Z1

Arduino
NANO

mini USB

STEP-UP

IN-
IN+
3V3
REF
A0
A1
A2
A3
A4
A5
A6
A7
5V
RST
GND
VIN

D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
RST
RX0
TX1

33R
+
CNY17
330R
22k
1k
330R
Relay 1
OUT-
OUT+

J I H G F   E D C B A   J I H G F   E D C B A   J I H G F   E D C B A

17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

MCP6141
PDIP, SOIC, MSOP

NC — 1 ... 8 — NC
V_{IN-} — 2 ... 7 — V_{DD}
V_{IN+} — 3 ... 6 — V_{OUT}
V_{SS} — 4 ... 5 — NC

IL300

C 1 ... 8 NC
A 2 ... 7 NC
C 3 K1 K2 6 C
A 4 ... 5 A

LP2950
**LP Package
3-Pin TO-92
Bottom View**

OUT   IN
GND

CNY17

A 1 ... 6 B
C 2 ... 5 C
NC 3 ... 4 E

Single Side stable

1 2 3 4 5
+
−
10 9 8 7 6

Index mark
(De-energized Position)