6s Battery Voltage Divider

B2_C1	A00	R6 56e3
B1_C2	R1 560e3 — A01	R7 470e3
B1_C3	R2 560e3 — A02	R8 330e3
B1_C4	R3 560e3 — A03	R9 180e3
B1_C5	R4 560e3 — A04	R10 150e3
B1_C6	R5 560e3 — A05	R11 100e3

B2_GND

4s Battery Voltage Divider

B2_C1	A06	R15 56e3
B2_C2	R12 560e3 — A07	R16 470e3
B2_C3	R13 560e3 — A08	R17 330e3
B2_C4	R14 560e3 — A09	R18 180e3

B2_GND

3s Battery Voltage Divider (1/2)

B3_C1	A10	R21 56e3
B3_C2	R19 560e3 — A11	R22 470e3
B3_C3	R20 560e3 — A12	R23 330e3

B3_GND

3s Battery Voltage Divider (2/2)

B4_C1	A13	R26 56e3
B4_C2	R24 560e3 — A14	R27 470e3
B4_C3	R25 560e3 — A15	R28 330e3

B4_GND

Battery Connection Ports (JST)

J1 — JST_7PIN_FEMALE
Pin	Signal
7	B1_C1
6	B1_C2
5	B1_C3
4	B1_C4
3	B1_C5
2	B1_C6
1	B1_GND

J2 — JST_5PIN_FEMALE
Pin	Signal
5	B2_C1
4	B2_C2
3	B2_C3
2	B2_C4
1	B2_GND

J3 — JST_4PIN_FEMALE
Pin	Signal
4	B3_C1
3	B3_C2
2	B3_C3
1	B3_GND

J4 — JST_4PIN_FEMALE
Pin	Signal
4	B4_C1
3	B4_C2
2	B4_C3
1	B4_GND

Arduino MEGA2560v3

U1
MEGA2560_V3

Pin	Name		Name	Pin
20	IOREF		SCL	45
21	RESET		SDA	46
1	3.3V		AREF	22
19	GND		D13	28
18	GND		D12	27
47	Vin		D11	26
			D10	25
			D9	4
2	A0 (A00)		D8	43
3	A1 (A01)			
10	A2 (A02)		D7	42
11	A3 (A03)		D6	41
12	A4 (A04)		D5	40
13	A5 (A05)		D4	39
14	A6 (A06)		D3	38
15	A7 (A07)		D2	35
16	A8 (A08)		D1	24
17	A9 (A09)		D0	23
4	A10 (A10)		D14	29
5	A11 (A11)		D15	30
6	A12 (A12)		D16	31
7	A13 (A13)		D17	32
8	A14 (A14)		D18	33
9	A15 (A15)		D19	34
			D20	36
			D21	37

Simulated Battery

Signal	Source	Voltage
B1_C6	V1	3.7
B1_C5	V2	3.7
B4_C3, B3_C3, B2_C3, B1_C3, B2_C4, B1_C4	V3	3.7
B4_C3, B3_C3, B2_C3, B1_C3	V4	3.7
B4_C2, B3_C2, B2_C2, B1_C2	V5	3.7
B4_C1, B3_C1, B2_C1, B1_C1	V6	3.7

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