

STELLA-1.1 Wiring list

| | | | | | | |
|------|------------------|-------------|------------|---------------|------------------------------------|--------------------------|
| Ver | 20230423 | | | | | |
| Line | Step | Front/ Rear | Location 1 | Location 2 | color | done |
| 1 | Resistors 100Ω | Rear | A60 | (+) bus | Brown-Black-Brown | <input type="checkbox"/> |
| 2 | Resistors 10kΩ | Rear | C39 | (-) bus | Brown-Black-Orange | <input type="checkbox"/> |
| 3 | Resistors 10kΩ | Rear | E39 | G39 | Brown-Black-Orange | <input type="checkbox"/> |
| 4 | GND test point | Front | H36 | H37 | GND | <input type="checkbox"/> |
| 5 | 00 black wires | Front | A2 | (-) bus | GND | <input type="checkbox"/> |
| 6 | 00 black wires | Front | A9 | (-) bus | GND | <input type="checkbox"/> |
| 7 | 00 black wires | Front | A13 | (-) bus | GND | <input type="checkbox"/> |
| 8 | 00 black wires | Front | A23 | (-) bus | GND | <input type="checkbox"/> |
| 9 | 00 black wires | Front | A32 | (-) bus | GND | <input type="checkbox"/> |
| 10 | 00 black wires | Front | A56 | (-) bus | GND | <input type="checkbox"/> |
| 11 | 00 black wires | Front | E9 | F9 | GND | <input type="checkbox"/> |
| 12 | 00 black wires | Front | E32 | F33 | GND | <input type="checkbox"/> |
| 13 | 00 black wires | Front | I33 | I36 | GND | <input type="checkbox"/> |
| 14 | 01 brown wires | Rear | B41 | B54 | Main Battery Voltage / 2 | <input type="checkbox"/> |
| 15 | 01 brown wires | Rear | D39 | D41 | Main Battery Voltage / 2 | <input type="checkbox"/> |
| 16 | 02 red wires | Front | A4 | (+) bus | +3.3V | <input type="checkbox"/> |
| 17 | 02 red wires | Front | A8 | (+) bus | +3.3V | <input type="checkbox"/> |
| 18 | 02 red wires | Front | A15 | (+) bus | +3.3V | <input type="checkbox"/> |
| 19 | 02 red wires | Front | A24 | (+) bus | +3.3V | <input type="checkbox"/> |
| 20 | 02 red wires | Front | A28 | (+) bus | +3.3V | <input type="checkbox"/> |
| 21 | 02 red wires | Front | A34 | (+) bus | +3.3V | <input type="checkbox"/> |
| 22 | 02 red wires | Front | A58 | (+) bus | +3.3V | <input type="checkbox"/> |
| 23 | 02 red wires | Front | E8 | F8 | +3.3V | <input type="checkbox"/> |
| 24 | 02 red wires | Front | E34 | F34 | +3.3V | <input type="checkbox"/> |
| 25 | 03 orange wires | Rear | J39 | J55 | Vbat Main Battery Voltage | <input type="checkbox"/> |
| 26 | 04 yellow wires | Rear | A6 | A50 | UART Main RX0 Sensor TXi | <input type="checkbox"/> |
| 27 | 04 yellow wires | Front | D11 | A46 | UART Main RX1 Sensor TXi | <input type="checkbox"/> |
| 28 | 04 yellow wires | Front | E11 | F11 | UART Main RX1 Sensor TXi | <input type="checkbox"/> |
| 29 | 05 green wires | Front | J16 | SCK bus (-) | i2c Serial Clock | <input type="checkbox"/> |
| 30 | 05 green wires | Front | J23 | SCK bus (-) | i2c Serial Clock | <input type="checkbox"/> |
| 31 | 05 green wires | Front | J32 | SCK bus (-) | i2c Serial Clock | <input type="checkbox"/> |
| 32 | 05 green wires | Front | E31 | F32 | i2c Serial Clock | <input type="checkbox"/> |
| 33 | 05 green wires | Rear | J45 | SCK bus (-) | i2c Serial Clock | <input type="checkbox"/> |
| 34 | 06 blue wires | Front | H38 | H41 | Pushbutton (active low) | <input type="checkbox"/> |
| 35 | 06 blue wires | Front | F41 | F51 | Pushbutton (active low) | <input type="checkbox"/> |
| 36 | 07 violet wires | Rear | A5 | A51 | UART Main TX0 Sensor RXo | <input type="checkbox"/> |
| 37 | 07 violet wires | Front | C10 | A45 | UART Main TX1 Sensor RXo | <input type="checkbox"/> |
| 38 | 07 violet wires | Front | E10 | F10 | UART Main TX1 Sensor RXo | <input type="checkbox"/> |
| 39 | 08 grey wires | Front | E40 | F40 | Enable | <input type="checkbox"/> |
| 40 | 08 grey wires | Front | G40 | G54 | Enable | <input type="checkbox"/> |
| 41 | 09 white wires | Front | J17 | SDA bus (-) | i2c Serial Data | <input type="checkbox"/> |
| 42 | 09 white wires | Front | J24 | SDA bus (-) | i2c Serial Data | <input type="checkbox"/> |
| 43 | 09 white wires | Front | J31 | SDA bus (-) | i2c Serial Data | <input type="checkbox"/> |
| 44 | 09 white wires | Front | E29 | F31 | i2c Serial Data | <input type="checkbox"/> |
| 45 | 09 white wires | Rear | J44 | SDA bus (-) | i2c Serial Data | <input type="checkbox"/> |
| 46 | 10 modify NIR | Front/Rear | JP1 open | JP2 close | For UART communication | <input type="checkbox"/> |
| 47 | 11 sensor pins | Rear | B2 - B7 | I2 - I7 | 2x 6 pins for NIR spectral | <input type="checkbox"/> |
| 48 | 11 sensor pins | Rear | B13-B19 | H13 - H19 | 2x 7 pins for VIS spectral | <input type="checkbox"/> |
| 49 | 11 sensor pins | Rear | B28 - B34 | NA | 1x 7 pins for WX weather | <input type="checkbox"/> |
| 50 | 11 sensor pins | Rear | H27 - H34 | NA | 1x 8 pins for AT temperature | <input type="checkbox"/> |
| 51 | 11 sensor socket | Front | J8-J12 | NA | 1x 5 pos low header socket for GPS | <input type="checkbox"/> |
| 52 | 12 discretes | Front | I8 | I9 | 0.1uF capacitor | <input type="checkbox"/> |
| 53 | 12 discretes | Front | [-] 6 | [+] 6 | 10uF capacitor | <input type="checkbox"/> |
| 54 | 12 discretes | Rear | J37 [-] | J38 [+] | 10uF capacitor | <input type="checkbox"/> |
| 55 | 12 discretes | Rear | B60 [+] | B55 [-] | Red LED (bend leads) | <input type="checkbox"/> |
| 56 | 12 discretes | Front | D36, 38 | G36, 38 | push button | <input type="checkbox"/> |
| 57 | 12 discretes | Front | A40 | (-) bus | power button | <input type="checkbox"/> |
| 58 | 13 modify logger | Front | SDCS | reroute to 11 | yellow | <input type="checkbox"/> |

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| 59 | 14 assemble micro | | 12 pin | 16 pin | stacking headers | <input type="checkbox"/> |
| 60 | 15 mount micro | Rear | I44 | I55 | 12 positions | <input type="checkbox"/> |
| 61 | 15 mount micro | Rear | C44 | C59 | 16 positions | <input type="checkbox"/> |
| 62 | 16 mount sensors | Rear | B2 - B7 | I2 - I7 | NIR spectral | <input type="checkbox"/> |
| 63 | 16 mount sensors | Rear | B13-B19 | H13 - H19 | VIS spectral | <input type="checkbox"/> |
| 64 | 16 mount sensors | Rear | B28 - B34 | NA | WX weather | <input type="checkbox"/> |
| 65 | 16 mount sensors | Rear | H27 - H34 | NA | AT temperature | <input type="checkbox"/> |
| 66 | 16 mount sensors | Rear | E23 - E24 | F23 - F24 | TIR thermal | <input type="checkbox"/> |
| 67 | ----- | ----- | ----- | ----- | ----- | <input type="checkbox"/> |
| 68 | 20 display board | Front | C14 | T14 | Short header socket 16 pos | <input type="checkbox"/> |
| 69 | 20 display board | Front | C22 | N22 | Short header socket 12 pos | <input type="checkbox"/> |
| 70 | 20 display board | Rear | B1 | W1 | Header pins 20 pos | <input type="checkbox"/> |
| 71 | 20 display board | Front | B1 | P14 | GND | <input type="checkbox"/> |
| 72 | 20 display board | Front | C1 | S14 | +3.3V | <input type="checkbox"/> |
| 73 | 20 display board | Front | E1 | H14 | SPI Serial Clock SCK | <input type="checkbox"/> |
| 74 | 20 display board | Front | G1 | G14 | SPI MOSI Main Out Serial In | <input type="checkbox"/> |
| 75 | 20 display board | Front | F1 | F14 | SPI MISO Main In Serial Out | <input type="checkbox"/> |
| 76 | 20 display board | Front | J1 | C14 | Display Reset | <input type="checkbox"/> |
| 77 | 20 display board | Front | I1 | H22 | SPI D/C Data/ Command | <input type="checkbox"/> |
| 78 | 20 display board | Front | H1 | G22 | SPI CS Chip Select | <input type="checkbox"/> |
| 79 | 20 display board | Front | P1 | D22 | i2c Serial Clock | <input type="checkbox"/> |
| 80 | 20 display board | Front | N1 | C22 | i2c Serial Data | <input type="checkbox"/> |
| 81 | 21 display | Rear | NA | IM1, IM2, IM3 | Close jumpers IM1,2,3. <u>Do not close IM0</u> | <input type="checkbox"/> |