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**IMPORTANT NOTES ABOUT THIS SCHEMATIC**

1) **DESIGN NOTES** in grey are information notes.

2) **DESIGN NOTES** in red are critical, and must be understood and followed.

3) A red X indicates suppression of error checking on a pin/net. Commonly suppressed errors include: single pin net, no driving source, etc.

4) All unique components in this schematic should have a manufacturer's part number displayed; exceptions to this rule are commodity passives such as resistors and capacitors.

5) Finally, population vs. non-population intent is indicated by adding "NP" next to the part. All parts with "NP" next to the part are intended to be unplaced during assembly.
DESIGN NOTE:

J5, J6, J7, and J8 are used for selecting which Arduino Shield pins the Skywire's UART connections are routed to. This allows the shield to be used with several different development kits.

Each position is mapped to specific UART connections for the USB-Serial interface or the specific development kit shown below. Use a 2-Pin, 100 mil jumper to short the two designated pins together.

- Position 1: ST Nucleo L476: Connect pins 2 and 4 on header J5, J6, J7, & J8.
- Position 2: ST Nucleo L476 or L073 Low Power UART: Connect pins 2 and 4 on headers J5, J6, J7, & J8, then connect pins 1 and 3 on headers J5 & J6. This configuration routes the Skywire's DOUT to the LPUART and the GPS to a regular UART.
- Position 3: NXP FDM2064F: Connect pins 4 and 6 on headers J5, J6, J7 & J8.
- Position 4: Arduino Leonardo: Connect pins 4 and 6 on headers J5 & J6, then connect pins 1 and 3 on J7 & J8.
- Position 5: On board USB-Serial converter: Connect pins 3 and 5 on headers J5, J6, J7 & J8.

DESIGN NOTE:
The user should make sure that the RTS/CTS jumpers are properly configured before powering up for the board. DO NOT connect RTS/CTS to the USB-Serial converter when it is not in use.

DESIGN NOTE:
Connect a 2 Pin jumper between J12-3 and J12-2 to enable RTS use with a development kit board.

Connect a 2 Pin jumper between J12-1 and J12-2 to enable CTS use with the onboard USB-Serial Converter.

Connect a 2 Pin jumper between J12-1 and J12-2 to enable CTS use with the onboard USB-Serial Converter.
**DESIGN NOTE:**

- **SHT30** Temp Sensor
- 0-100% RH Humidity Sensor
- I2C Address: 0x45
DESIGN NOTE: System requires a 5V input. Do not use any other voltage.

DESIGN NOTE: Power must be applied to J9.

DESIGN NOTE: Charge current is set to 1A.

DESIGN NOTE: System requires voltage. Do not use any other input.

DESIGN NOTE: Power must be applied to J9.

DESIGN NOTE: Use BatterySpace CU-J821-V4 battery with J10.

DESIGN NOTE: DO NOT connect two batteries to the system at the same time.

DESIGN NOTE: Use Sparkfun PRT-08483 or BatterySpace CU-J1032 battery with J11.
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