MAJOR REVISION HISTORY:

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<th>PCB REV.</th>
<th>SCH. REV.</th>
<th>DESCRIPTION</th>
<th>DATE</th>
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<td>0.1</td>
<td>Initial Draft</td>
<td>20/09/2018</td>
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<tr>
<td></td>
<td>0.8</td>
<td>Schematic Released for External Review</td>
<td>16/11/2018</td>
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PAGE DESCRIPTION

PAGE01 : COVER PAGE
PAGE02 : BLOCK DIAGRAM
PAGE03 : ADC INTERFACE
PAGE04 : ZIGBEE/BLE MODULE
PAGE05 : POWER SUPPLY
PAGE06 : REVISION HISTORY

PCB MECHANICAL DETAILS:

1. PCB SIZE: 50 X 55 mm
2. PCB MATERIAL: FR4
3. NUMBER OF LAYERS: 4
4. PCB THICKNESS: 1.6mm
5. IMPEDANCE CONTROL: NO

NOTES, UNLESS OTHERWISE SPECIFIED:

1. RESISTANCE VALUES ARE IN OHMS.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. PARTS NOT INSTALLED ARE INDICATED WITH 'DNP'.
4. SIGNAL NET NAMES WITH "#" SUFFIX, ARE ACTIVE LOW SIGNALS.
5. RESISTORS ARE OF 0402 SIZE AND 5% TOLERANCE UNLESS SPECIFIED OTHERWISE
6. CAPACITORS ARE OF 0402 SIZE UNLESS SPECIFIED OTHERWISE
7. ALL THE PARTS INDUSTRIAL TEMPERATURE GRADE.
AA Battery Connector

3.3V Power supply generation

Sensor Power supply generation

Dummy Parts
<table>
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| 0.2     |         | Change the Adjusant out for U7 to 3.3V instead of fix output of 2.5V  
Place a ferrite bead on VSENSOR power rail.  
Removed LED D3 and Resistor R23.  
Providing GPIO to Pin 4 of U7 to control enable pin.  
Add one more bulk cap of 10uF/4.7uF at J4 Connector.  
Add a note in the schematic at AA Battery connector.  
Add one decap of 0.1uF for noise filtering at both input & output power pins of U7  
Change the net name of SPI connection of flash.  
Added 3 pin connector for UART console and its fan out.  | 05/10/2018 |        |
| 0.3     |         | Place FB on ADC supplies & isolate with the local 3.3V power rail  
Add 10K pull up on JTAG_RSTN Signal  
Add 2.2uF bulk cap on IOVDD of ADC & VDD of Zigbee Module  
Moisture Sensor LDO must be given 3.3V input instead of 3V & change the circuit accordingly to generate 3V  
Add series termination resistor on SPI Clk Signals  
Change the SPI Flash to ISSI Part# IS25LQ040B-JNLE  
Swap the port of U2 for better routing  
Add 0 Ohm resistor at 19 pin of ADC (U1)  | 17/10/2018 |        |
| 0.4     |         | Added RTD section in the schematic  
Change the footprint name to reference board file names  | 24/10/2018 |        |
| 0.5     |         | Add Voltage measurement Pin in ADC  
Added Dummy part for Soil Moisture and Soil PH  | 26/10/2018 |        |
| 0.6     |         | Battery Connector J5 changed to DF3A-2P-2DSA  
Soil PH Connector J2 changed to OSTTC0221E2  | 29/10/2018 |        |
| 0.7     |         | Added Ferrite Bead at U7 input  
Added one more ferrite Bead between AGND and DGND  
Added ESD and series resistor at J4 Console UART  
Added Zero Ohm resistor at U6 Pin 4(SHDI0N) and U7 Pin 12 and 13 of ADC.  | 05/11/2018 |        |
| 0.8     |         | Change U2 part ADA4661-2ARMZ to ADA4505-2  
Change U7 part ADP7118ACPZN-2.5 to ADP1712  | 16/11/2018 |        |