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| Parameter | Sensor |
| Temperature | RHT03 Temp. & Humidity sensor |
| Relative Humidity | RHT03 Temp. & Humidity sensor |
| Pressure | BMP180 Barometer |
| Solar Irradiance | Apogee Instruments SP-215 |
| UV Radiation | ML8511 UV Sensor |
| Images | LinkSprite JPEG Color Camera |
| Accelerometer | ADXL345 |
| Data Transmission | XTend 900 1W RPSMA Radio |
| GPS | Spark Fun Venus GPS |
| Micro Controller | Arduino Mega 2650 |
| Ground and PIL Antenna | Digi International A09-HSM-7 |
| Micro SD Card Board | SparkFun microSD Transflash Breakout |