

v7 Sensors Board

Code

Code: <https://github.com/liutyi/arduino-humidity-sensors-test/tree/v7>

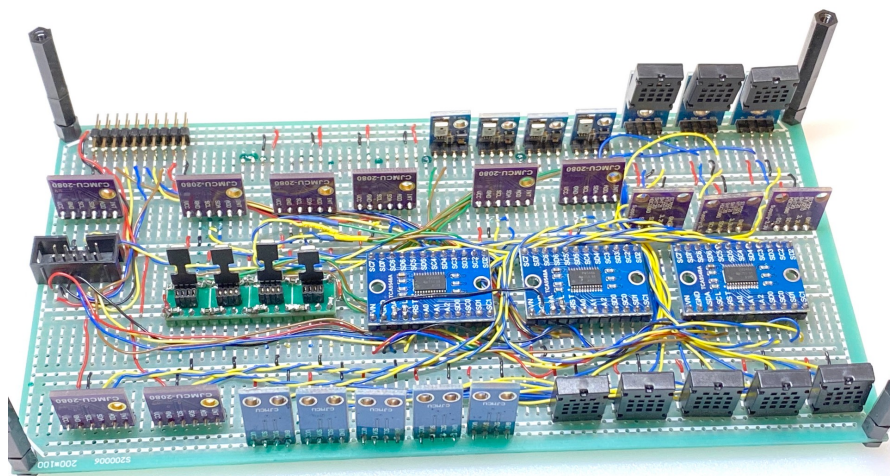
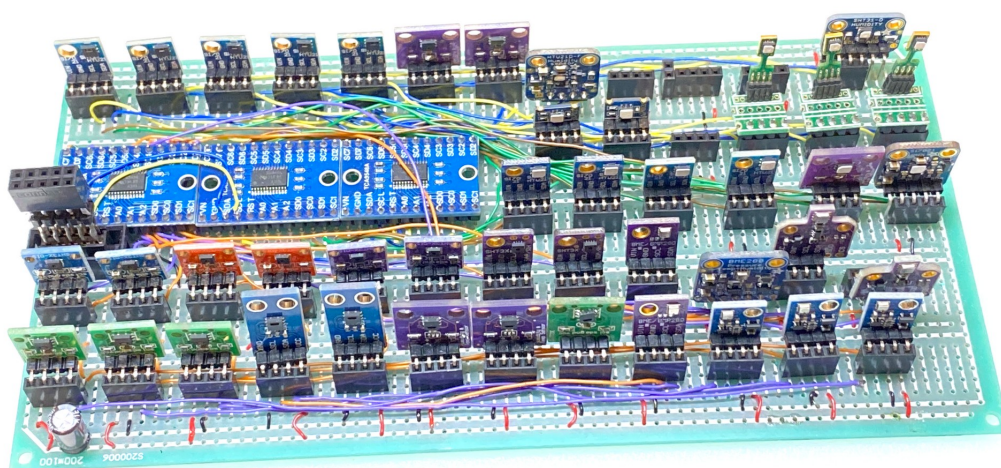
Key feature.

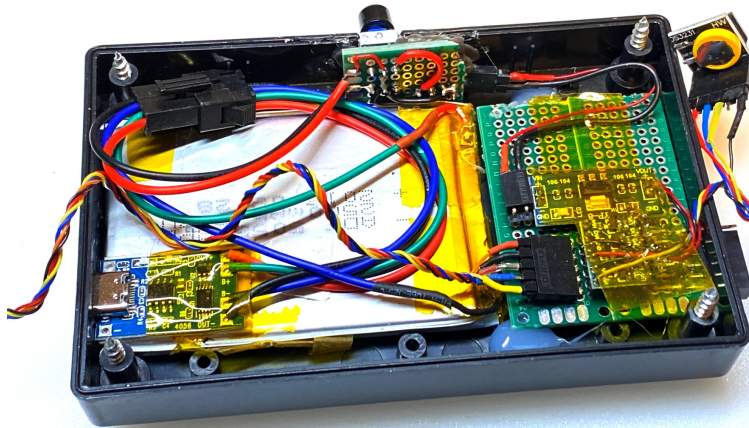
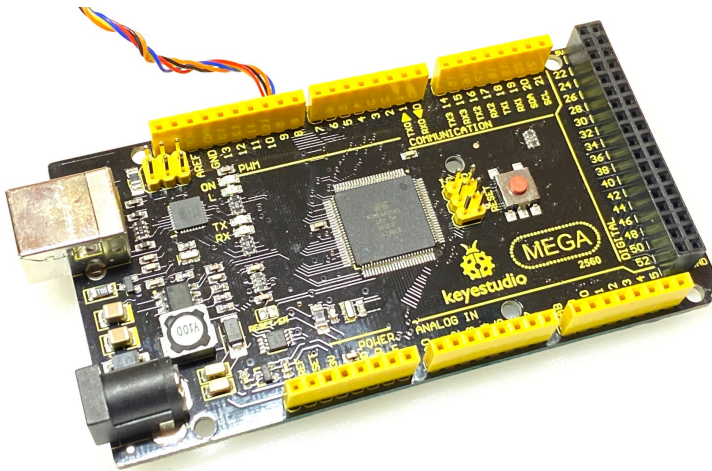
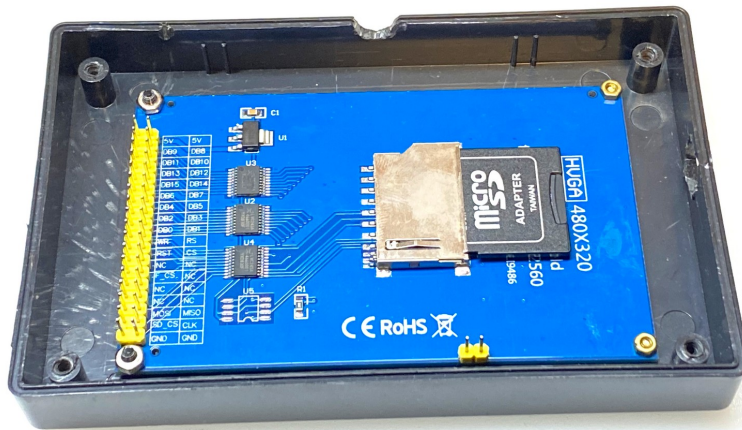
- 76 sensors
- Stable operation
- RTC added
- SD files with correct timestamps

Tests

- [Test 0 v7 balcony RH27](#)
- [Test 1 v7 Balcony changing humidity](#)
- [Test 2 v7 room RH12 low humidity](#)
- [Test 3 v7 balcony RH15-92 changing humidity](#)
- [Test X v7 Template](#)

Hardware





1. [Arduino Mega \(keyestudio\)](#)
2. 480x320 LCD with SD
3. Battery 2500 mAh
4. Battery charging circuit Type-C
5. Voltage converter (3.7 - 5v)
6. Voltage converter (5v - 3.3v)
7. [i2c level converter \(5v - 3.3v\)](#)
8. Real-Time Clock DS3231
9. 6 multiplexors TCA9548A ([alternative](#))
10. [76 sensors](#)

This PC > SD8GB (D:)

☐ Name	Date modified	Type	Size
 H_V7_000	11/3/2019 1:03 AM	Microsoft Excel C...	818 KB
 H_V7_001	11/21/2019 11:44 PM	Microsoft Excel C...	184 KB
 H_V7_002	11/22/2019 12:24 AM	Microsoft Excel C...	56 KB
 H_V7_003	11/22/2019 10:24 AM	Microsoft Excel C...	849 KB
 H_V7_004	11/22/2019 10:48 AM	Microsoft Excel C...	30 KB
 H_V7_005	11/22/2019 7:05 PM	Microsoft Excel C...	703 KB
 H_V7_006	11/23/2019 2:06 AM	Microsoft Excel C...	139 KB
 H_V7_007	11/23/2019 2:08 AM	Microsoft Excel C...	4 KB
 H_V7_008	11/23/2019 3:09 AM	Microsoft Excel C...	85 KB
 H_V7_009	11/23/2019 1:00 PM	Microsoft Excel C...	822 KB
 H_V7_010	11/23/2019 1:19 PM	Microsoft Excel C...	27 KB
 T_V7_000	11/3/2019 1:03 AM	Microsoft Excel C...	818 KB
 T_V7_001	11/21/2019 11:44 PM	Microsoft Excel C...	184 KB
 T_V7_002	11/22/2019 12:24 AM	Microsoft Excel C...	56 KB
 T_V7_003	11/22/2019 10:24 AM	Microsoft Excel C...	780 KB
 T_V7_004	11/22/2019 10:48 AM	Microsoft Excel C...	30 KB
 T_V7_005	11/22/2019 7:05 PM	Microsoft Excel C...	703 KB
 T_V7_006	11/23/2019 2:06 AM	Microsoft Excel C...	139 KB
 T_V7_007	11/23/2019 2:08 AM	Microsoft Excel C...	4 KB
 T_V7_008	11/23/2019 3:09 AM	Microsoft Excel C...	85 KB
 T_V7_009	11/23/2019 1:00 PM	Microsoft Excel C...	834 KB
 T_V7_010	11/23/2019 1:19 PM	Microsoft Excel C...	27 KB

	A	B	C	D	E	F	G	H	I	J
1	Time	SHT20	SHT20	SHT20	SHT21-C	SHT21-C	SHT21-G	SHT21-G	SHT25	SHT30
2	0:24:58	15.02	14.98	15.14	15.18	15.66	21.4	22.69	17.09	16.23
3	0:25:18	15.59	15.55	15.68	15.79	16.23	21.85	23.11	17.67	17.04
4	0:25:37	16.06	16.06	16.16	16.23	16.64	22.22	23.52	17.96	17.33
5	0:25:56	15.88	15.85	16.01	16	16.42	22.04	23.3	17.74	17.01
6	0:26:15	15.71	15.67	15.74	15.79	16.2	21.91	23.13	17.48	16.76
7	0:26:35	15.48	15.48	15.6	15.57	15.98	21.76	22.98	17.34	16.6
8	0:26:54	15.38	15.34	15.5	15.51	15.9	21.66	22.88	17.26	16.45
9	0:27:14	15.3	15.22	15.39	15.39	15.8	21.58	22.8	17.19	16.4
10	0:27:33	15.23	15.19	15.31	15.32	15.77	21.52	22.78	17.16	16.38
11	0:27:52	15.12	15.07	15.25	15.24	15.69	21.44	22.63	17.06	16.27
12	0:28:12	15.09	15.05	15.2	15.21	15.65	21.42	22.63	17.06	16.25
13	0:28:31	15.05	15	15.14	15.17	15.58	21.37	22.59	16.98	16.19
14	0:28:51	14.97	14.94	15.1	15.1	15.55	21.3	22.56	16.93	16.16
15	0:29:10	14.94	14.86	15.02	15.07	15.46	21.31	22.53	16.91	16.06
16	0:29:29	14.9	14.82	15	15.03	15.44	21.28	22.5	16.87	16.05
17	0:29:49	14.88	14.8	14.96	15.03	15.4	21.24	22.5	16.88	16.01
18	0:30:08	14.84	14.76	14.93	14.97	15.37	21.21	22.43	16.8	15.91
19	0:30:28	14.8	14.71	14.89	14.88	15.33	21.17	22.43	16.77	15.85

