

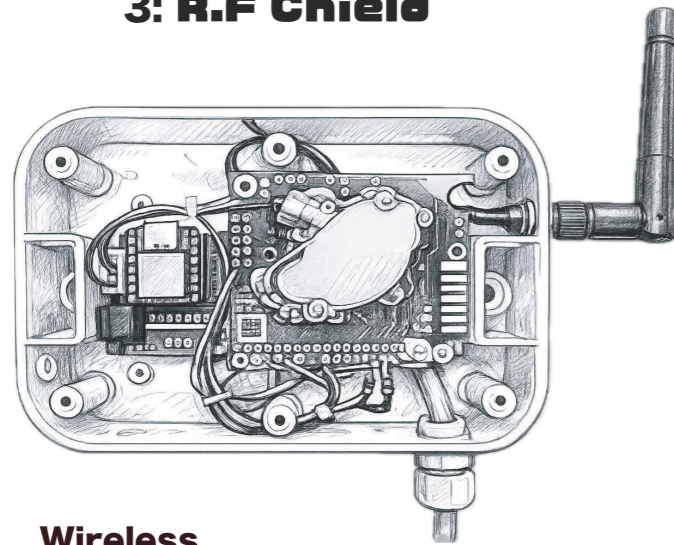


IoT WEB PLC Series V.2

Automatic Environmental Control System



3: R.F Chield



- Wireless**
3-1: CO₂ / Temperature / Humidity
3-2: Illuminance
3-3: Relay Board
3-4: Contact Monitoring

1: Tiny WEBPLC

- A :** CPU Board : CONTEC CPI-MS10CM4 or Raspi 4B
B : DO Board :CPI-DO-16L 16ch

2: SENSOR UNIT

- C :** CPU Board: Raspi 4B or XPort
D : Sensor Board :A.S I3 InterLink

3: R.F Chield :Field Tech Lab

4 ~12: Sensor :Atlas-scientific.com

#(Blue) : Atlas scientific

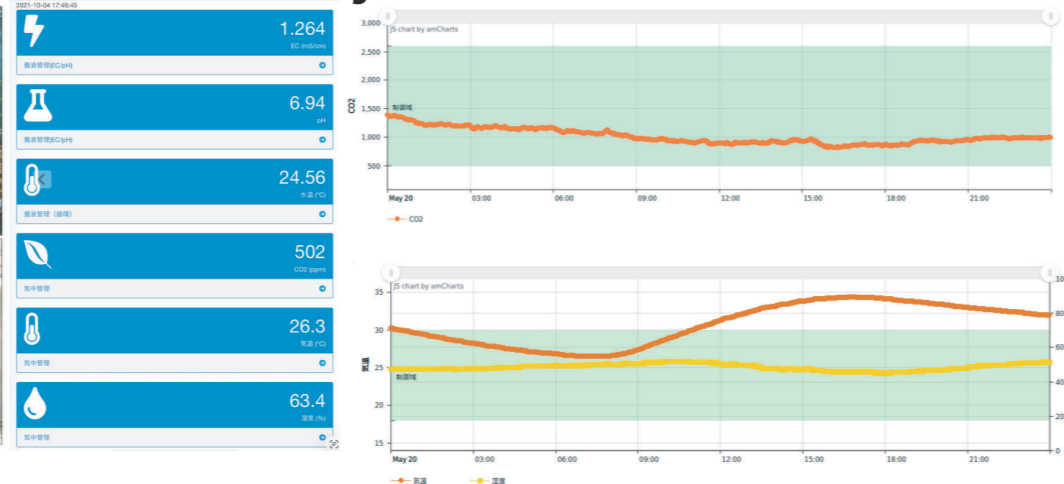
#(Red) : Keyence

- **Example : Equipment Configuration**
- **Hydroponics Control : 1 + 2 + 3 + 4/13 + 5 + 6 + 7 + 10/14**
- **Mushroom Cultivation : 1 + 3**
- **Aquaculture : 1 + 2 + 3 + 4/13 + 5 + 6 + 7 + 8 + 9 + 10/14**
- **Microalgae Cultivation : 1 + 2 + 4/13 + 5 + 6 + 7 + 8 + 9 + 10/14 + 11 + 12**
- etc

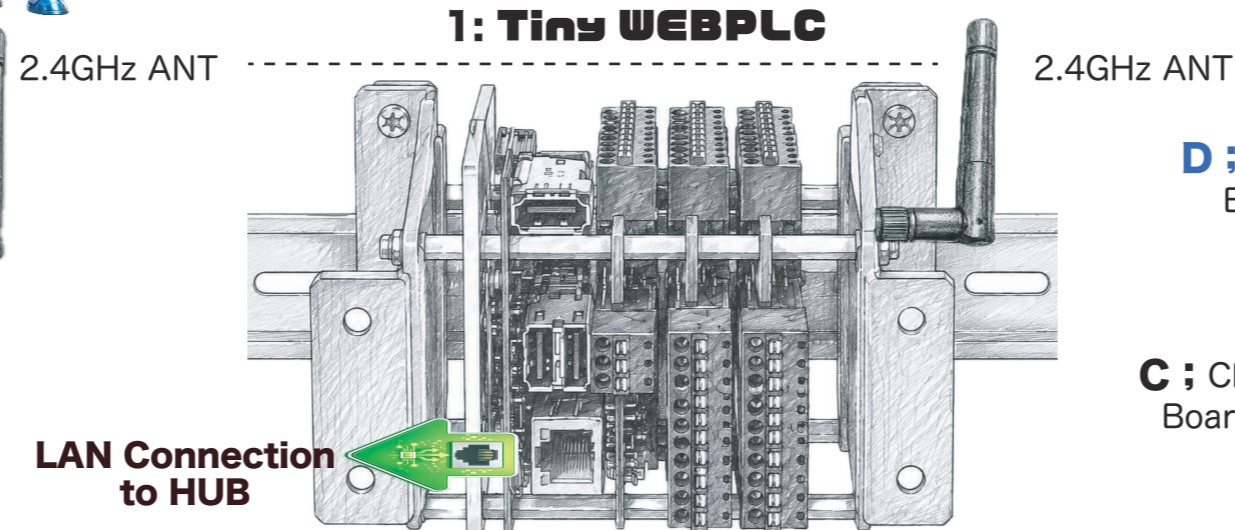
Field



Tiny WEBPLC Web UI

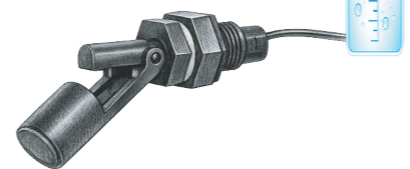


1: Tiny WEBPLC



- A :** CPU Board
B : DO 16ch x Board

DI Connection



4 : Water Level Sensor or **13 :**

DO Connection Relay Interface External Devices

12 : EtherNet/IP™-compatible
IO-Link M.M

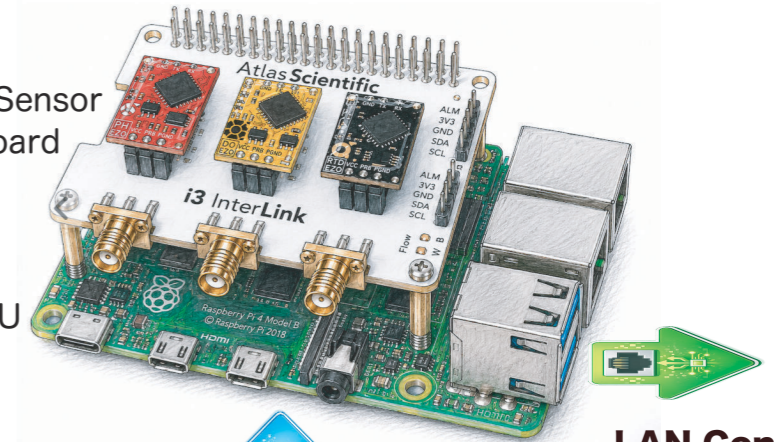
13 : Water Level Sensor

14 : Flow Sensor

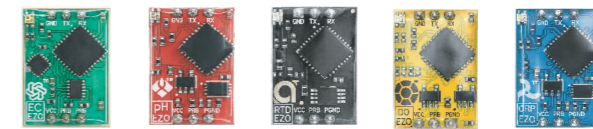


2: SENSOR UNIT

- D :** Sensor Board
C : CPU Board



I2C Connection



LAN Connection to HUB

5: EC Nutrient Solution Concentration

6: pH

7: Liquid Temperature

8: DO Dissolved Oxygen

9: ORP Oxidation-Reduction Potential

I2C Connection



11 : Ambient CO₂ Concentration



12 : Color Sensor

10 : Flow Sensor or **14 :**

