Radar Solution
BY SAIJAI TECH

SAIJAI TECH CO., LTD.
40 Lai Unique Thesaban Rangsan Nuea Road, Ladyao Subdistrict, Chatuchak District, Bangkok 10900

Contact
02-128-0942
iot@saijai.tech
www.saijai.tech
SaiJai Tech
@saijaitech
@saijaitech

Radar

Efficient Weather Measurement System and Platform with IoT Devices

Radar is a detailed weather measurement system developed using IoT devices and a software platform to monitor and analyze control or monitoring systems to suit specific needs without affecting the system.

Key Features

Efficiency
Can measure various values related to weather conditions such as temperature, humidity, air pressure, etc.

Customization and flexibility
Supports customization or addition of specific requirements such as dust, wind, rainfall, PM 2.5 etc.

Easy installation and compatibility
Adopts Plug and Play principle which makes it easy to integrate with existing systems.

Easy to use
Has a clear information show on display screen and status lights.

Strong and durable
It is an aluminum enclosure with a lid and roof, dustproof, waterproof, and unbreakable.

ARM Cortex-M 32-bit
32-bit dual-core processor.

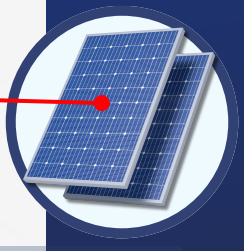
4G
Support 4G connection.

Memory
Built-in memory of 512 KB.

RS485
Communicates via RS485.

Weather Station

Solar Panal



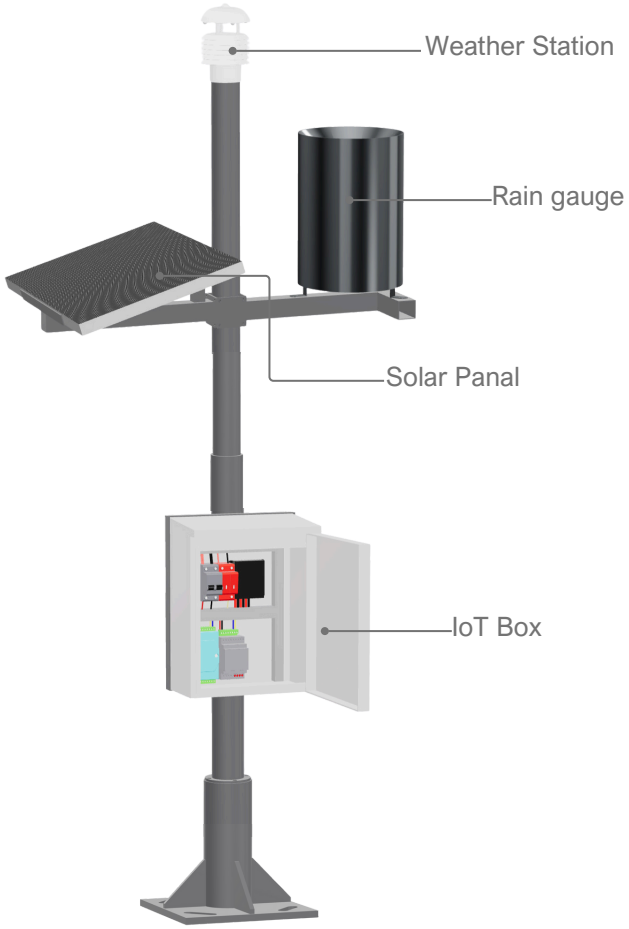
Accessories

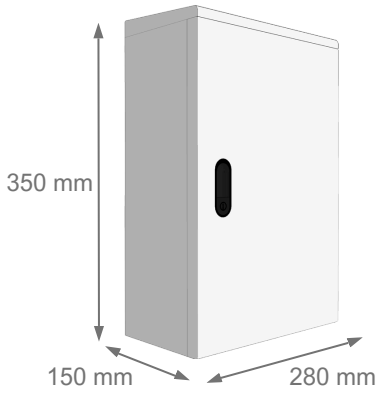
SAIJAI TECH CO., LTD.
40 Lai Unique Thesaban Rangsan Nuea Road, Ladyao Subdistrict, Chatuchak District, Bangkok 10900

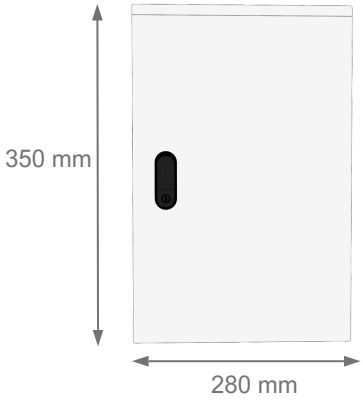
Contact
02-128-0942
iot@saijai.tech
www.saijai.tech
SaiJai Tech
@saijaitech
@saijaitech

Overview

Solution Components







Weather Station

A Weather Station collects and records data on temperature, humidity, wind speed and direction, atmospheric pressure, and rainfall. This information is essential for weather forecasting and climate studies. Automatic stations can transmit real-time data via the internet or other systems.

SAIJAI TECH CO., LTD.
40 Lai Unique Thesaban Rangsan Nuea Road, Ladyao Subdistrict, Chatuchak District, Bangkok 10900

Contact
02-128-0942
iot@saijai.tech
www.saijai.tech
SaiJai Tech
@saijaitech
@saijaitech

Product Description

MCU	32-bit dual-core processor
Interface port	RS485 or RS232 isolation with auto - direction (Software mode selection) Rs485 or I2C with auto-direction
Indicator lamp	Includes 2 status indicator LEDs
Memory	512 KB
USB type C port	Program Upload
IoT control box	Waterproof
Clock speed	240 MHz
User switch	1 button

Sensor Temperature Humidity Light		
Parameter	**Measurement Range**	**Accuracy**
Humidity	-20 %RH ~ 95 %RH	±3 %RH (60 %RH, 25 °C)
Temperature	-40 °C ~ +120 °C	±0.5 °C (25 °C)
Brightness	0 ~ 200 kLux	±7% (25 °C)
Noise	30 dB ~ 130 dB	±3 db
PM10 PM2.5	0 ~ 1000 µg/m3	±10% (25 °C)
Rainfall	0.5 mm	≤±2%
Wind Level	0 ~ 30 m/s	±(0.3 + 0.03V) M/S ± 1°
Wind Direction	0 ~ 360°	±(0.3 + 0.03V) M/S ± 1 °

IoT size box	H: 500 x W: 350 x D: 280 mm
Weight	6 kg.