

# Sensor Module IAGM2

Particulate Matter Sensor Module

## HIGHLIGHT FEATURES

- High Precision PM2.5 / PM10 Detection
- Fast Response and Recovery Time
- Low Power Consumption with High Efficiency
- Wide Operating Range : -10°C to 50°C and 15% to 90% Humidity
- Seamless Integration via I<sup>2</sup>C Communication Protocol, Plug-and-play Support
- Durable and Maintenance-free Operation



## SPECIFICATIONS

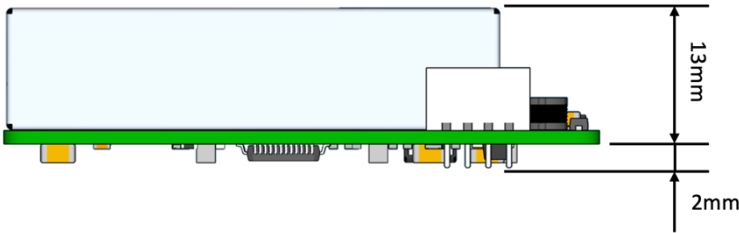
|                            |                            |
|----------------------------|----------------------------|
| Model Name                 | IAGM2                      |
| Detection                  | PM2.5 / PM10               |
| Principle                  | Optical scattering (Laser) |
| Measurement Range (µg/m3)  | 0 ~ 1000                   |
| Resolution (µg/m3)         | 1                          |
| Accuracy (ppm)             | ±10±10% of reading         |
| Response Time (T90) (sec)  | <10                        |
| Operation Temperature (°C) | -10 ~ 50 (Ta)              |
| Operation Humidity (%RH)   | 15 ~ 90                    |
| Expected Operating Life    | 3 Years                    |
| Power Supply (V)           | 4.75 ~ 5.25                |
| Power Consumption (mW)     | 110                        |
| Interface                  | I <sup>2</sup> C           |
| Dimension (L x W x H/mm)   | 58 x 48 x 15.5             |

## ORDER INFO.

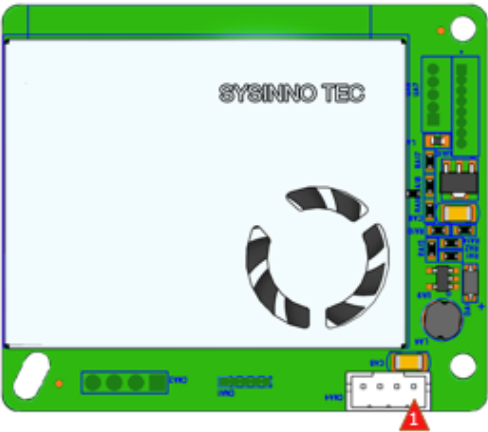
| P/N               | Description            |
|-------------------|------------------------|
| EA3-2AAS2M0M006A2 | IAGM2 PM Sensor Module |

# MECHANICAL DRAWING

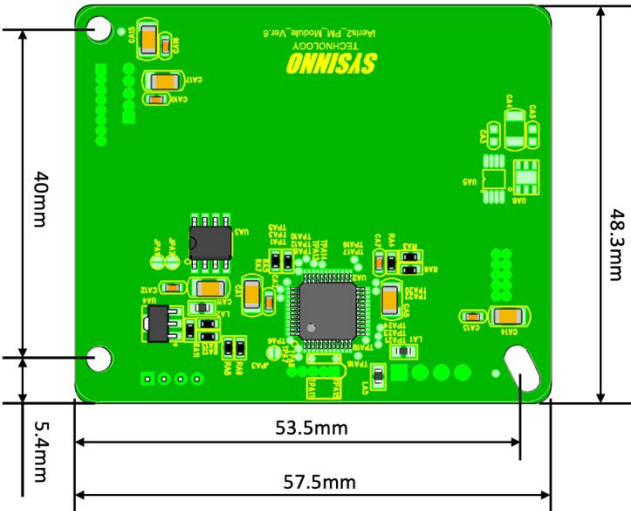
Slide View



Top View



Bottom View



# PIN DEFINE



CN1

CN1 1 x 4 Pin Header

| Pin | Signal          |
|-----|-----------------|
| 1   | V <sub>DD</sub> |
| 2   | SDA             |
| 3   | SCL             |
| 4   | GND             |