

Product Name / SKU

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Unit ENV-IV

SKU:U001-D



Description

Unit ENV-IV is an environmental sensor unit embedded with SHT40 and BMP280 sensors for measuring **temperature, humidity, and atmospheric pressure** data. The SHT40 is a high-precision, low-power digital temperature and humidity sensor that supports the I2C interface (SHT40 I2C address: 0x44). The BMP280 is an absolute pressure sensor that provides high-precision atmospheric pressure measurements (BMP280 I2C address: 0x76).

It is suitable for meteorological monitoring, indoor environment monitoring, agriculture and horticulture, and industrial automation.

Features

- Integrated sensors (Temperature and humidity sensor SHT40, Pressure sensor BMP280)
- High precision and low power consumption
- I2C communication interface (SHT40 I2C address: 0x44, BMP280 I2C address: 0x76)
- Real-time monitoring
- Multi-platform programming with Arduino UIFlow

Includes

- 1 x Unit ENV-IV
- 1 x HY2.0-4P Grove connection cable (20cm)

Applications

- Meteorological monitoring
- Indoor environment monitoring
- Agriculture and horticulture
- Industrial automation

Specifications

Specification	Parameter
SHT40 Measurement Range	-40 ~ 125 °C, 0 ~ 100 %RH
BMP280 Measurement Range	300 ~ 1100hPa
SHT40 Measurement Accuracy	±0.2 °C, ±1.8 %RH

BMP280 Measurement Accuracy

±0.12hPa

Communication Protocol

I2C: SHT40 (0x44), BMP280 (0x76)

Casing Material

Plastic (PC)

Product Size

32.0 x 24.0 x 8.0mm

Product Weight

3.9g

Package Size

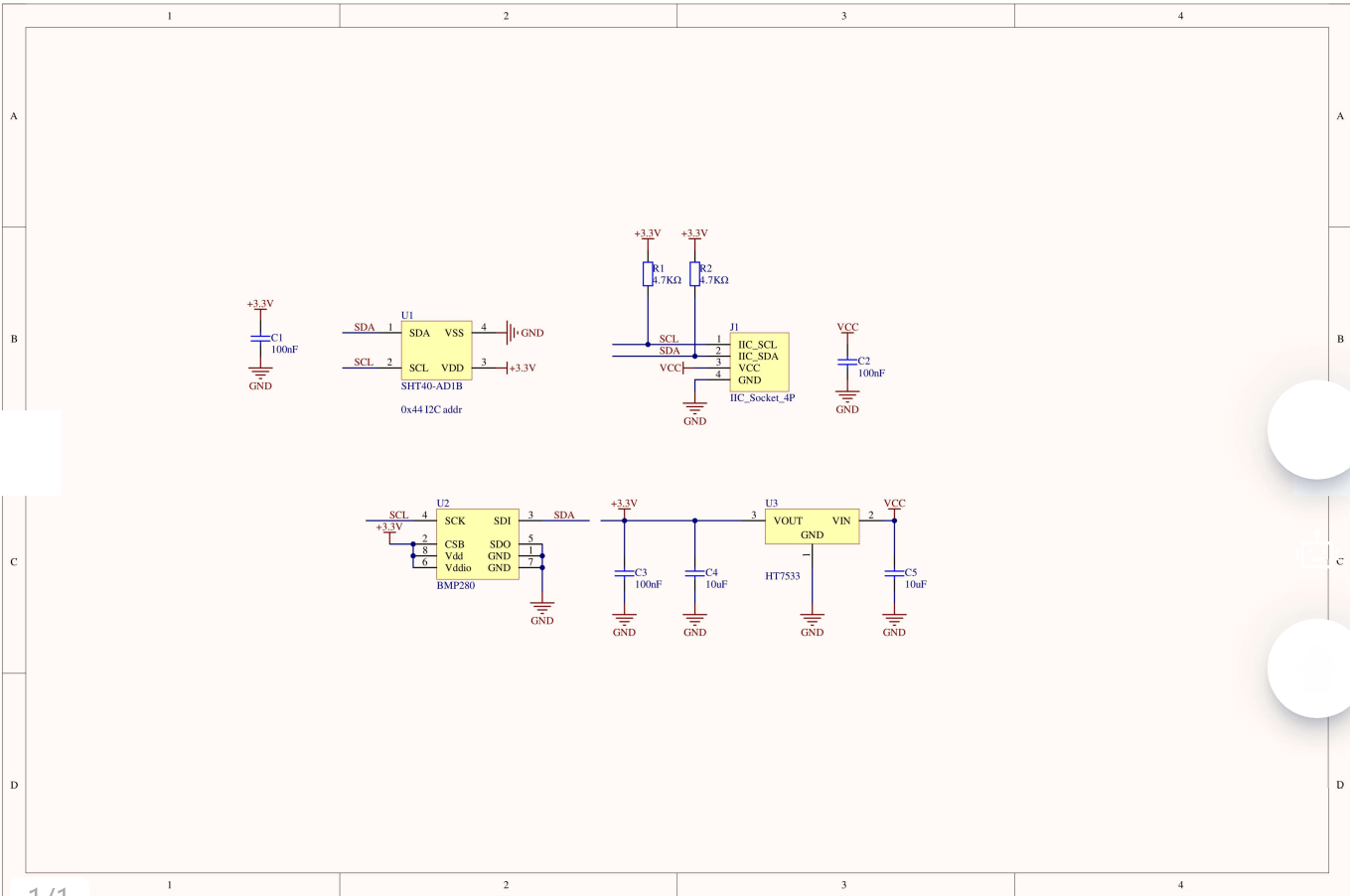
138.0 x 93.0 x 9.0mm

Gross Weight

9.4g

Schematics

- Unit ENV-IV Schematics PDF





HY2.0-4P	Black	Red	Yellow	White
PORT.A	GND	5V	SDA	SCL

Model Size



Datasheets

- [BMP280 Datasheet](#)
- [SHT40 Datasheet](#)

Softwares

Arduino

- [Unit ENV-IV Test Example with M5Core](#)

UiFlow1

- [Unit ENV-IV UiFlow1 Docs](#)


UiFlow2

- [Unit ENV-IV UiFlow2 Docs](#)

EasyLoader

Easyloader	Download Link	Note
Unit ENV-IV Test Example Easyloader	download	/ 

Video

- Example of measuring temperature, humidity, and atmospheric pressure 

0:00 / 0:25

Product Comparison

ENV I	ENV II	ENV III	ENV IV	ENV PRO
DHT12+BMP280	SHT30+BMP280	SHT30+QMP6988	SHT40+BMP280	BME688

Compatible



Unit ENV-IV

Unit-PORT

PORT.A

GND 5V I2C_SDA I2C_SCL

+



CoreS3

Available PORT

PORT.A

GND 5V G2 G1

PORT.B

GND 5V G9 G8

PORT.C

GND 5V G17 G18

"Unit ENV-IV" & "CoreS3" Grove Port Connection Note:

Please modify the example program according to the actual PIN number when using.

Available Ports: **PORT.A** **PORT.B** **PORT.C** .

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