

ENV IV Unit

SKU:U001-D



Description

ENV IV is an environmental sensor that integrates the SHT40 and BMP280 sensors, designed for measuring **temperature, humidity, and atmospheric pressure data**. The SHT40 is a high-precision, low-power digital temperature and humidity sensor, supporting the I2C interface (SHT40 address: 0x44). The BMP280, on the other hand, is an absolute pressure sensor known for its high accuracy in atmospheric pressure measurements, with an I2C address of 0x76. This sensor unit finds applications in various fields, including meteorological monitoring, indoor environmental control, 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 monitor
- Multi platform programming Arduino UIFlow

Includes

- 1x ENV IV Unit

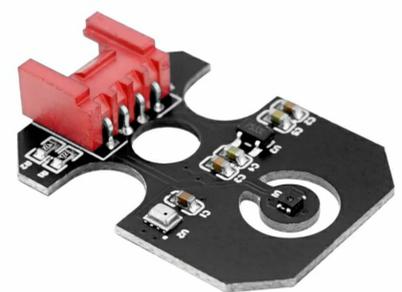
- 1x Grove Cable (20cm)

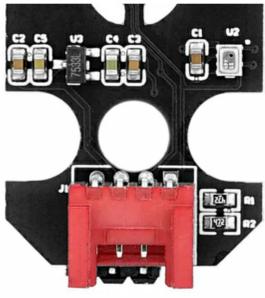
Applications

- meteorological monitoring
- Indoor environmental monitoring
- Agriculture and Horticulture
- Industrial automation field

Specification

Resources	Parameters
SHT40 measure range(Temperature/Humidity)	-40 ~ 125 °C, 0 ~ 100 %RH
BMP280 measure range(Presure)	300 ~ 1100hPa
SHT40 measure accuracy	±0.1 °C, ±1.5 %RH
BMP280 measure accuracy	±0.12hPa
communication protocol	I2C:SHT30(0x44),BMP280(0x76)
Shell material	Plastic (PC)
Product Size	32/*24/*8mm
Package Size	136* 92*13mm
Product Weight	3.9g
Package Weight	9.3g





Products related to this item

[CoreS3 \(K128\)](#)

[CORE2 \(K010\)](#)

[TOUGH \(K034\)](#)

[BASIC-V27 \(K001-V27\)](#)

[M5StickC PLUS \(K016-P\)](#)

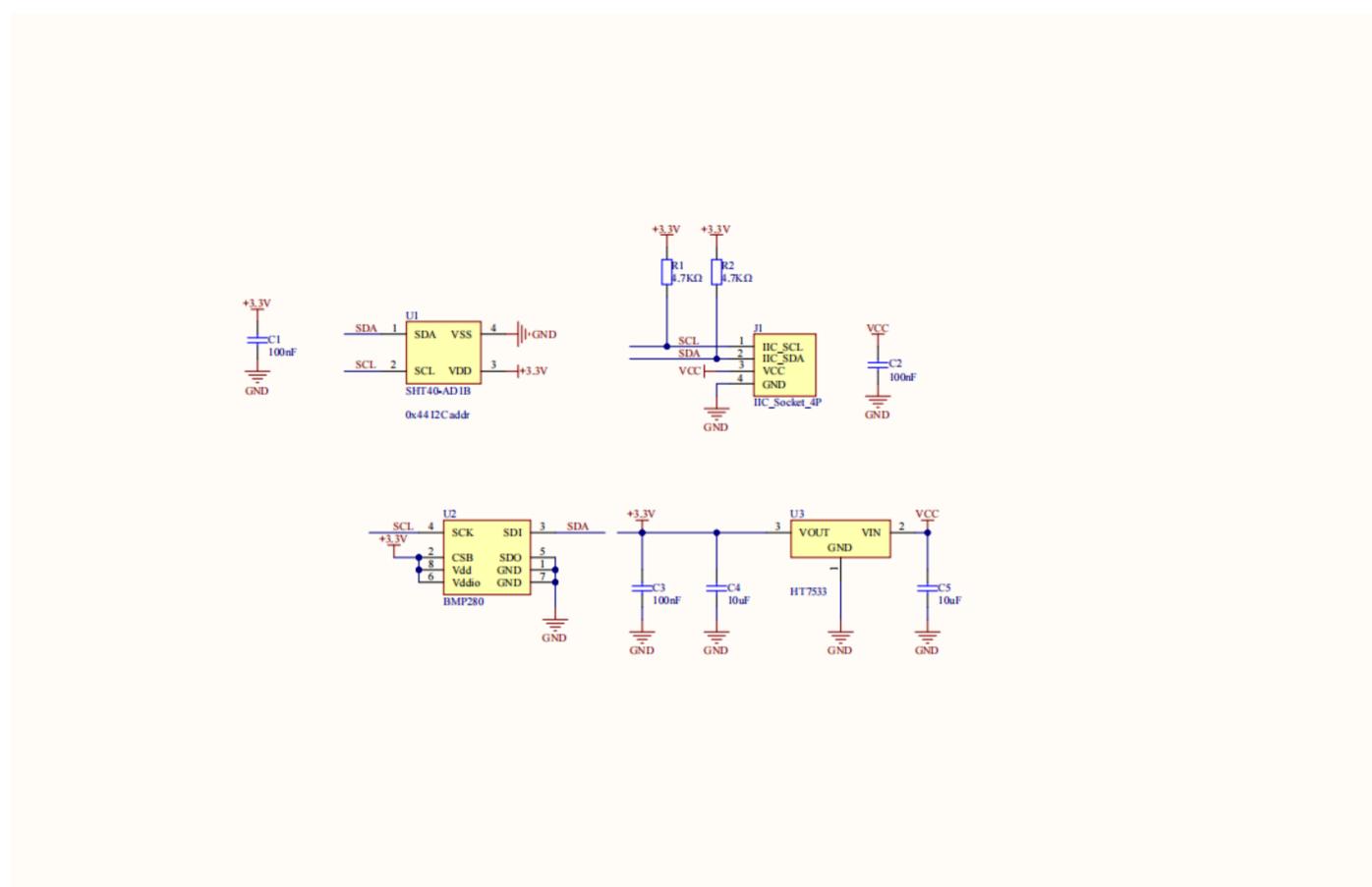
[ATOM Lite \(C008\)](#)

[AtomS3 Lite \(C124\)](#)

Related Link

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

Schematic



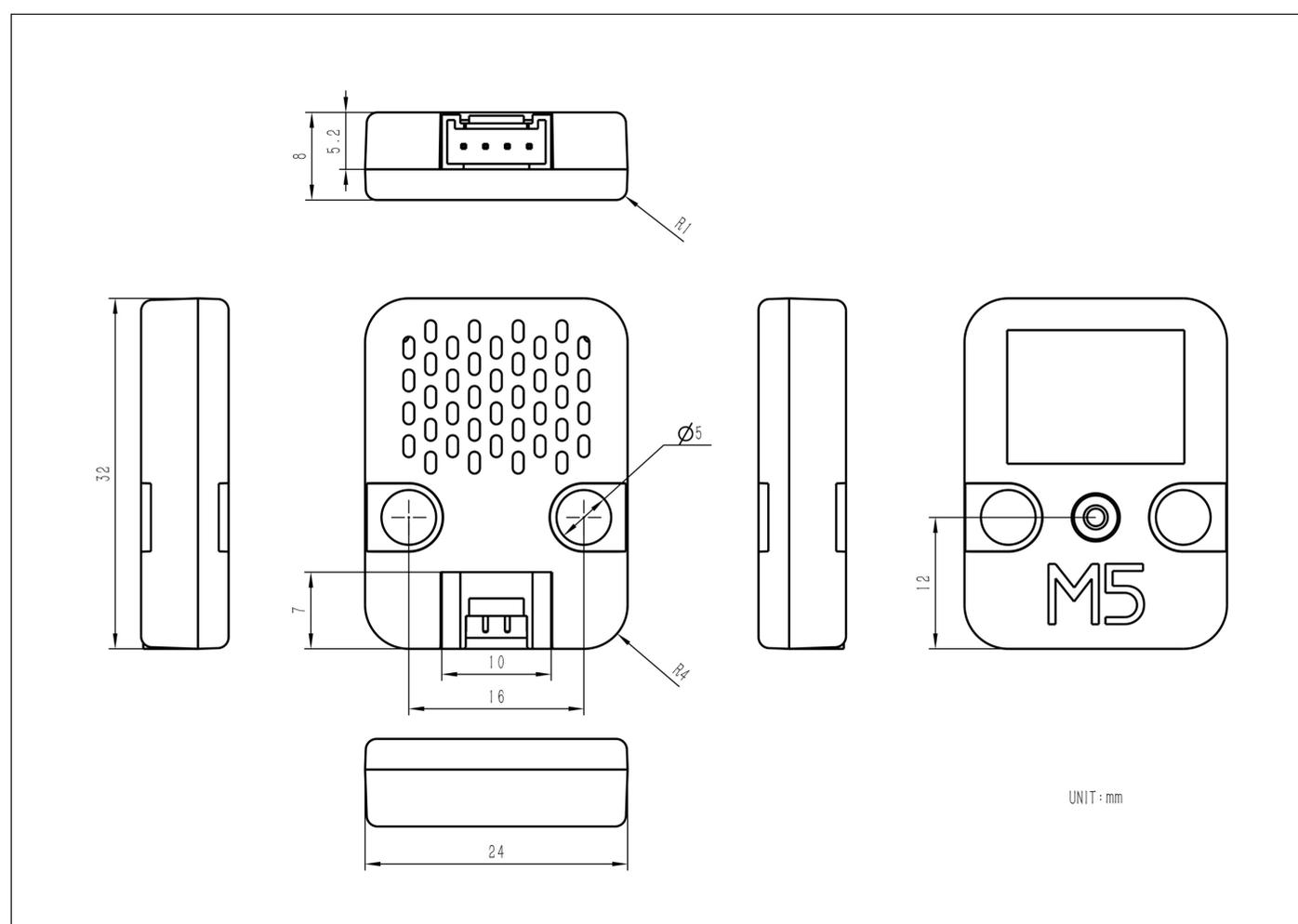
EasyLoader

- [Windows](#)
 - [ENVIV Unit Demo](#)

PinMap

M5Core (GROVE A)	G22	G21	5V	GND
EVN IV Unit	SCL	SDA	5V	GND

Module Size



Examples

Arduino

- [ENVIV Unit show TEM\HUM\Pressure Arduino Demo](#)

UIFlow Blocks

- [Set mode](#)

env4_0 Set mode NOHEAT_HIGHPRECISION

- Get temperature

Get env4_0 Temperature

- Get pressure

Get env4_0 Pressure

- Get Humidity

Get env4_0 Humidity

- Get mode

Get env4_0 mode

Video

- Measure Tem./Hum./Pressure Demo

ENV version scheme comparison

ENV I	ENV II	ENV III	ENV IV	ENV PRO
DHT12+BMP2	SHT30+BMP28	SHT30+QMP69	SHT40+BMP28	BME688
80	0	88	0	

