

Hat DLight

SKU:U134



Description

Hat DLight is a **digital ambient light detection sensor** compatible with the M5StickC/C Plus series. The hardware uses the **BH1750FVI** illuminance sensor IC (I2C interface), with a built-in 16-bit AD converter, supporting illuminance value detection from **1 to 65535 lx**. It features a small size and low power consumption, making it suitable for various illuminance detection and light control adjustment scenarios.

Features

- Compatible with M5StickC/C Plus series
- I2C communication interface (addr: 0x23)
- Digital conversion of illuminance
- Low dependency on light source (can detect incandescent, fluorescent, halogen, white LED, and sunlight)
- Detection range (1 - 65535 lx)

Includes

- 1 x Hat DLight
- 1 x Double-Sided Tape

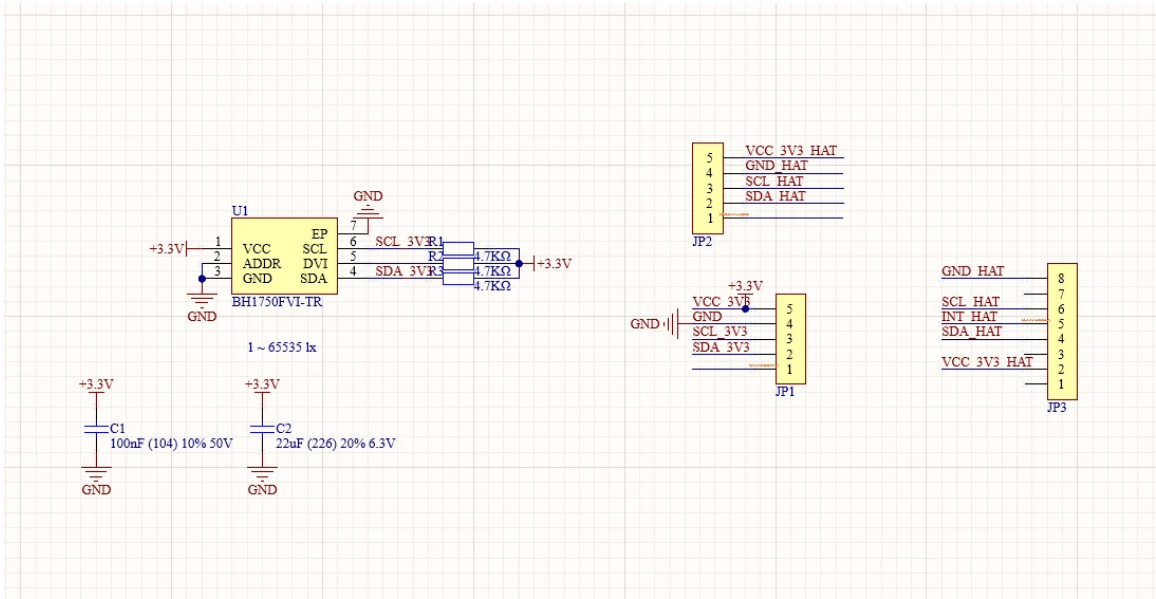
Applications

- Illuminance detection

Specifications

Specification	Parameter
Sensor Model	BH1750FVI
Illuminance Detection Range	1 - 65535 lx
Communication Interface	I2C Communication @0x23
Peak Sensitivity Wavelength (Typical)	560nm
Operating Current	< 3.3V@0.3mA
AD Conversion Depth	16bit
Product Size	24.0 x 24.9 x 13.7mm
Product Weight	5.3g
Package Size	138.0 x 93.0 x 15.0mm
Gross Weight	7.4g

Schematics

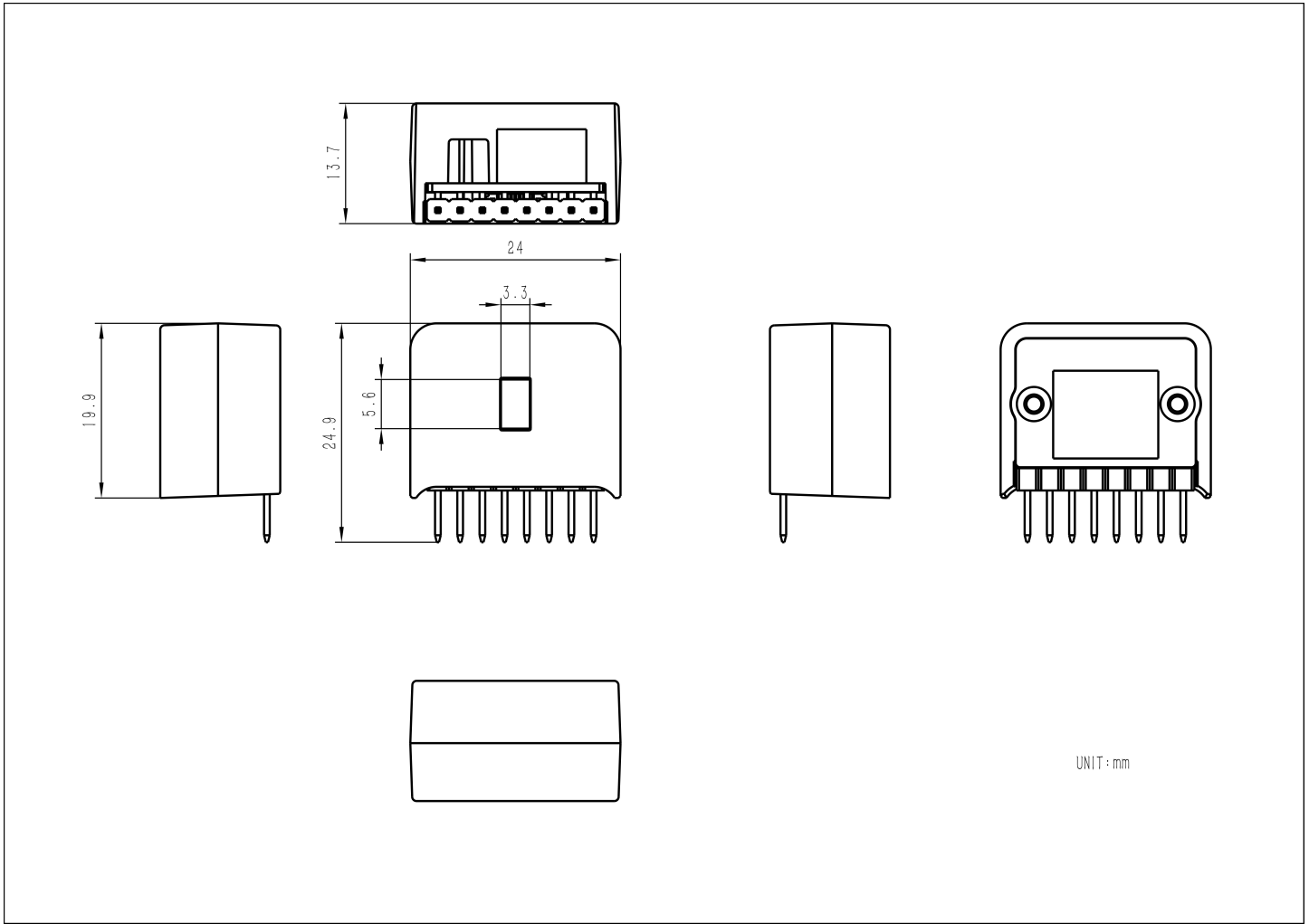


PinMap

- HAT DLight

M5StickC	G0	G26	3.3V	GND
HAT DLight	SDA	SCL	VCC	GND

Model Size



Structure

- [Hat DLight Structure Files](#)

Datasheets

- [BH1750FVI datasheet](#)

Softwares

Arduino

- [Hat DLight Arduino Library](#)
- [Hat DLight Example - with M5StickC](#)
- [Hat DLight Example - with M5StickC-Plus](#)

UiFlow1

- [Hat DLight UiFlow1 Docs](#)

UiFlow2

- [Hat DLight UiFlow2 Docs](#)

| Video

- Illuminance Value Detection

[HAT_DLIGHT_VIDEO.mp4](#)