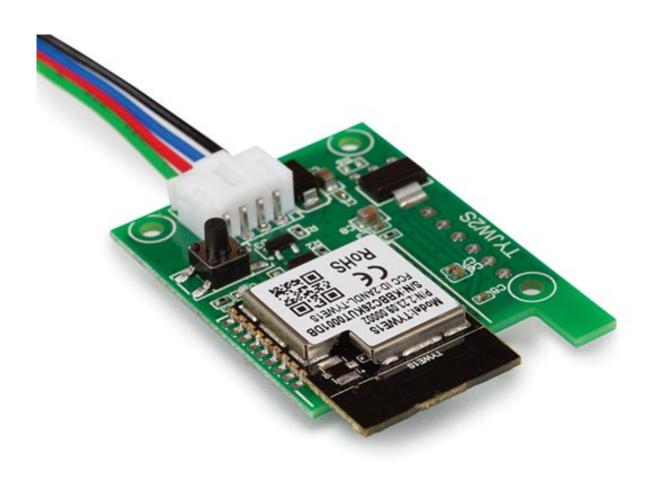# Velleman®

TUYA IOT INTERFACE

WPI354

Product description

Control your Arduino projects from anywhere in the world with a free app thanks to the Tuya IoT interface!

Plug the Tuya IoT interface module into your Arduino by using the included 4 male wires. Then connect your Arduino with the IoT Tuya cloud by simply installing the Tuyav library, which is compatible with ATmega chipsets (or AVR platforming). This will enable you to connect with the Tuya app over WiFi and lets you control up to 5 outputs.

Both the cloud and app are compatible with iOS® and Android®. It's also nice to know that the Tuya app and cloud are completely free and there aren't any sneaky subscriptions. Plus, the Tuya cloud is the largest in the world!

Features

- use the Tuya cloud application to:
    - directly control digital & analog output pins on your Arduino
    - watch the state of digital & analog input pins on your Arduino
    - add, control and link multiple devices at once
- easily connect with the Tuya cloud thanks to the Tuyav library (compatible with ATmega chipsets)
- includes Tuya cloud acces without additional subscription needed
- compatible with the Tuya & Smart Life apps (Android® & iPhone®)
- useful links:
    - Tuyav Arduino software library (https://github.com/Velleman/Tuyav/)
    - Tuya smart app on Google Play (https://play.google.com/store/apps/details?id=com.tuya.smart)
    - Tuya Smartlife app on Google Play (https://play.google.com/store/apps/details?id=com.tuya.smartlife)

Specifications

- dimensions (W x H x D): 31.5 x 42.8 x 9.6 mm
- power: 5 VDC
- connectioncs: VCC, GND, TX, RX
- available IO connections:
    - 9 x AV (arbitrary value): string, max 255 chars
    - 3 x DI (digital input): boolean, 1 or 0 (on or off)
    - 3 x AI (analog input): integer, 0-4095 (suitable for 10-bit or 12-bit resolution dev boards)
    - 5 x DO (digital out): boolean, 1 or 0 (on or off)
    - 3 x AO (analog out): integer, 0-255
- wireless frequency: 2.4 GHz (not compatible with 5 GHz frequency)
- working temperature: 0-55 °C
- typical operating power consumption: 60 mA
- max. power consumption: 450 mA

Velleman vs. Whadda SKU

overview file (https://cdn.whadda.com/wp-content/uploads/2021/10/04080448/Whadda_ProductsTransitionList_EN-1.pdf)