

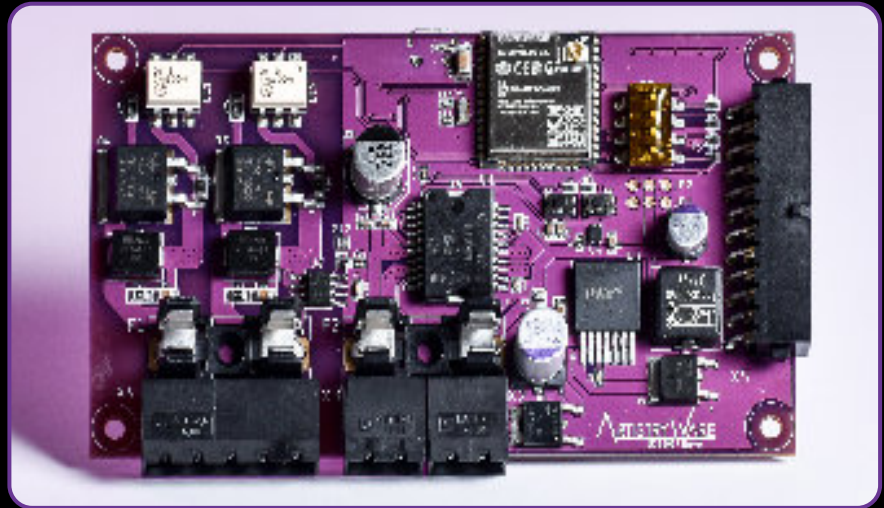
Universal Interface UI100

Simplifying Automation for Interactive Designs

Product Sheet

Key Features

- ExpressIF ESP32-WROOM-32U
 - Dual processor with 32MB memory
 - Wi-Fi/Bluetooth/BLE Connectivity
 - U.FL Antenna Connection
 - Onboard USB programming interface
- DC Input voltage range of 4.5V to 24V
- DIP switch for unique addressability
- Individual fuse protection
- SX1509 IO Expander
 - 2 configurable 5VDC I/O
 - 4 LEDs with breath, blink and dim
- AC Load Control
 - Dual opto-isolated BTA12 Triacs
 - Drive one reversible motor or two individual loads
 - Maximum output current of 5A
 - Onboard current sensing with ACS722
- DC Load Control TLE8209
 - Automotive grade motor bridge
 - Single Full Bridge or Dual Half Bridge
 - Input supply monitoring
 - Over/under voltage, open/short circuit and over temperature protection
- Dual RC Servo Control up to 5A
- Board Dimensions: 110mm X 61mm



Product Overview

The ArtistryVare UI100 is an integrated solution designed as a universal interface device for a wide range of IoT applications. It is a powerful (driving multiple loads), multipurpose (configurable) and far-ranging (WiFi, BT, BLE) module that is efficient for many purposes and applications.

The design of this module is for long-range applications through WiFi internet connection or mobile devices like a smart phone. This device is versatile such that it can control multiple loads like AC, DC, and RC servo motors. It is also applicable for various LED applications with multiple functions such as dim, breath, and blink. This unit is also a perfect companion to the AW BR100 remote control device.

The module can be used standalone or integrated with other modules in any automation or IoT design or project.

Product Application

The UI100 can be used to directly interface AC, DC, and other loads to any IoT project. It has a full Bluetooth Low Energy Stack, which can configure the board as a Central, Peripheral, or a Beacon depending on the application. It can function as a web server, client, or even an access point with its WiFi function. It can also be configured to support over-the-air (OTA) firmware update and can be programmed using Arduino IDE.

About ArtistryVare

Artistryware Inc. brings together decades of expertise in various entertainment venues from cinemas and television to theme parks and interactive experiences. We are highly committed to providing feature rich interactive experiences from hardware to software and for all types of venues and platforms.