# PRODUCT SPECIFICATION

Colorful LED Control Card

**HD-WF1**

V7.0

# 1. Overview

HD-WF1 (referred to as WF1) is a Wi-Fi control card for dazzle display, with 1 HUB75E interface on board, which supports playing text, animated words, GIF animation, timing and other kinds of programs, and supports two ways of updating the programs, Wi-Fi and U-disk, and it is suitable for door displays, store signboards and other occasions. The supporting software has a simple interface, easy to operate, and is characterized by high cost performance.
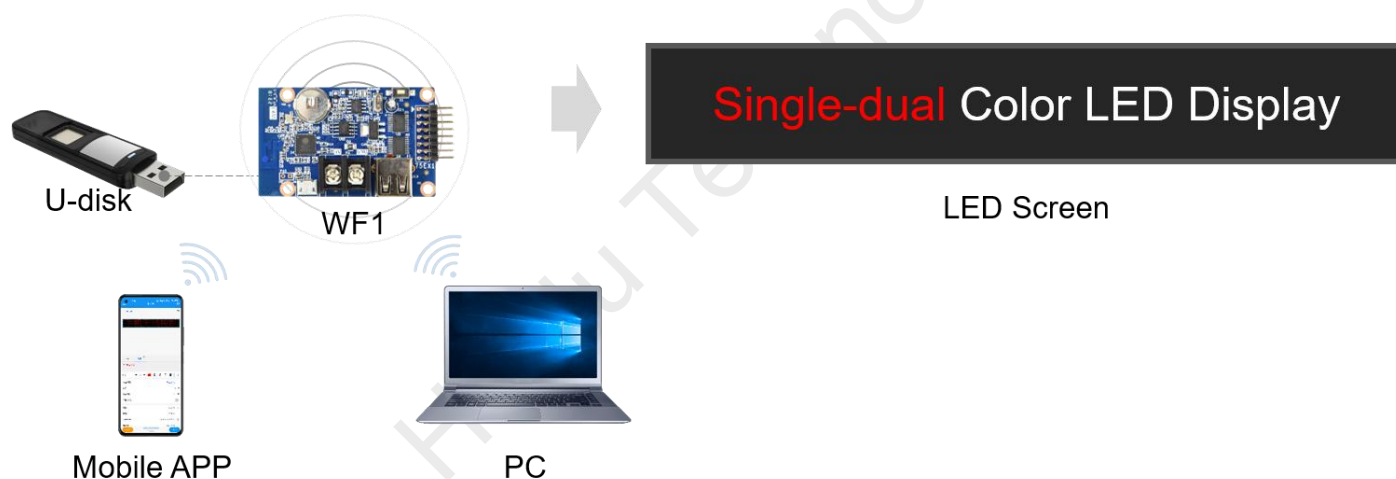
Application Software:
PC: HDSign (HD2020);
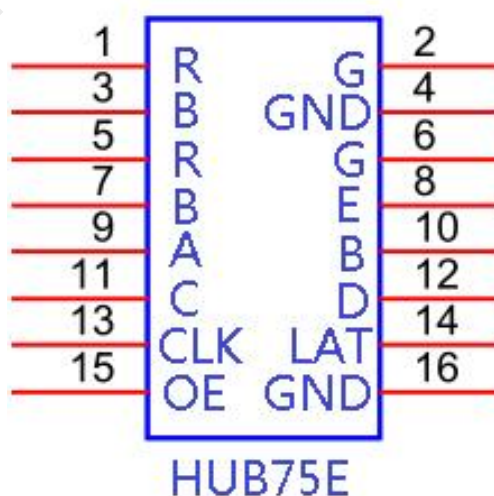Mobile: "LedArt APP" and "LedArt lite APP".

# 2. Connection Diagram

After the Wi-Fi control card is powered on, cell phones and laptops can connect to the control card's Wi-Fi hotspot for debugging or updating programs,and can also update programs via U-disk.
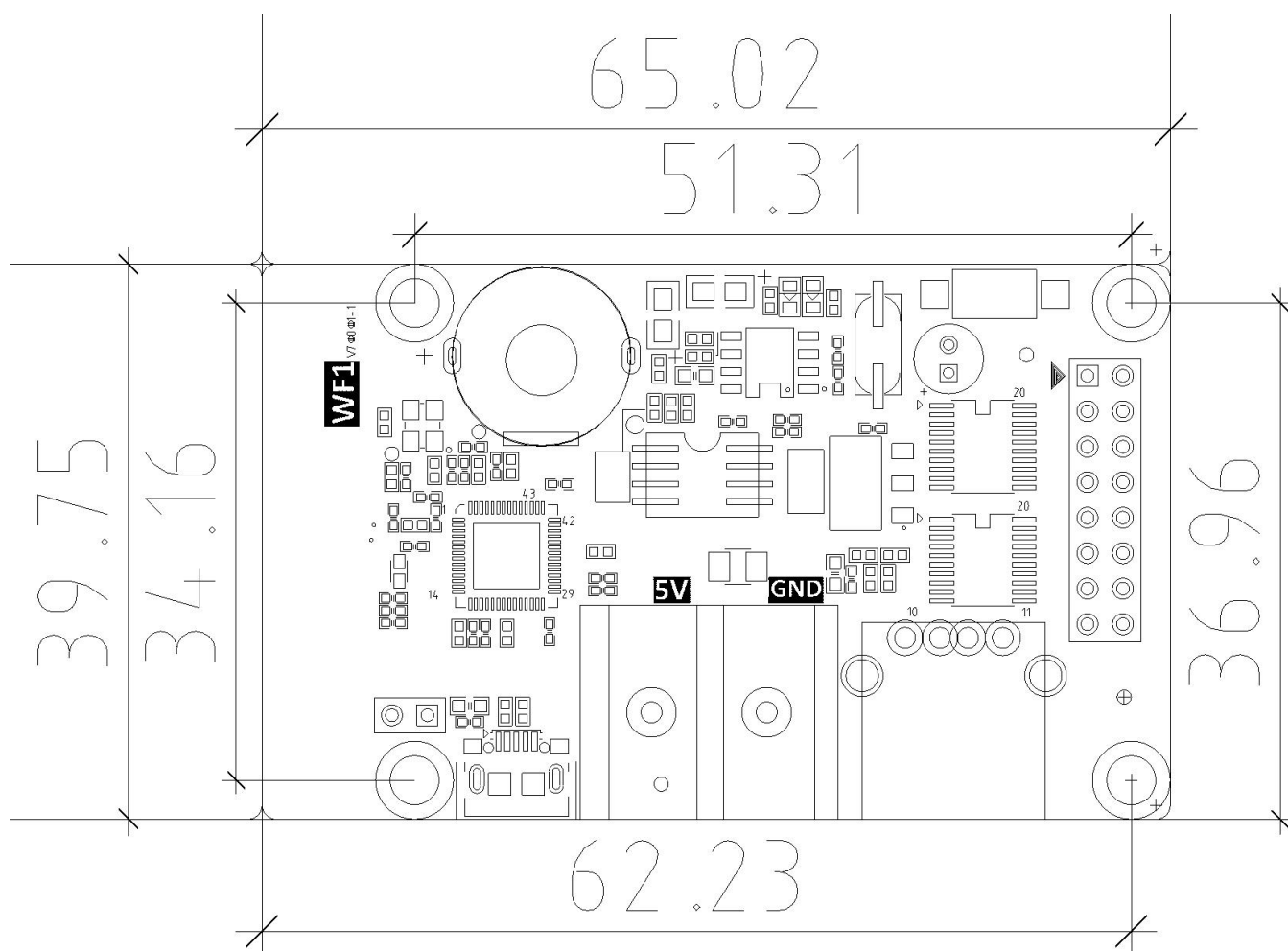
## 2. Function List

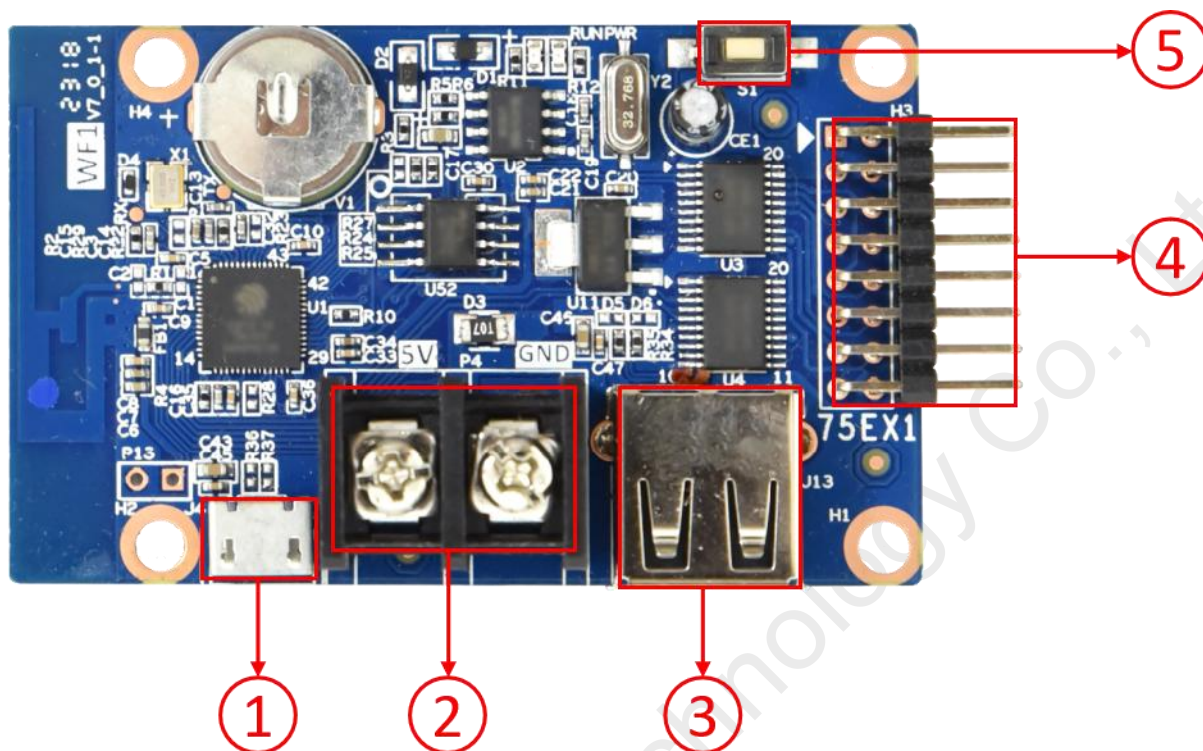| Content | Function description |
|---|---|
| Module Type | Supports full color module with HUB75 interface, supports regular and 2038S chip |
| Scanning Method | Supports static to 1/32 sweep |
| Control Range | 384*64,Max Width:640; Max Height:64 |
| Communication | U-disk, Wi-Fi |
| FLASH Capacity | 1M Byte（Practical usage 480K Byte） |
| Support Seven Colors | No gray scale can display red, green, blue, yellow, purple, cyan, white |
| Support Full Color | Up to 8 levels of grayscale, support dazzling color text |
| Number of Programs | 999 |
| Area Quantity | 20 areas with separate zone, and separated special effects and border |
| Display Showing | Text, Animated characters, 3D characters, Graphics (pictures, SWF), Excel, Time, Temperature (temperature and humidity), Timing, Counting, Lunar calendar |
| Automatic Switch Screen | Support timer switch machine |
| Dimming | Brightness adjustment, adjustment by time period |
| Power Supply Method | Micro USB power and standard terminal block power |

## 4. Port Definition

# 5. Size Diagram

# 6. Interface Description



| Serial number | Name | Description |
|:---:|:---|:---|
| 1 | Micro 5V Power inport | Power can be supplied to the control card via Micro USB cable |
| 2 | Power inport | Connect to a 5V DC power supply |
| 3 | USB ports | Updated program by U-disk |
| 4 | HUB ports | 1 HUB75, connect LED display module |
| 5 | S1 | For test display, multiple status selection |

# 7. Basic Parameters

| Parameter Term | Parameter Value |
|---|---|
| Work voltage（V） | DC 4.2V-5.5V |
| Work temperature（℃） | -40℃~80℃ |
| Work humidity（RH） | 0~95%RH |
| Storage temperature(℃) | -40℃~105℃ |

Precautions:

1) To ensure that the control card is stored during normal operation, make sure the battery on the control card is not loose;

2) In order to ensure the long-term stable operation of the system; please try to use the standard 5V power supply voltage.