7.5 inch Tri-color Bluetooth Wireless Electronic Notice Board

Product Name：Bluetooth Wireless Electronic Notice Board

Part No.：DMIF075RBU1

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Revision：V3.5

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1 Overview

Bluetooth wireless electronic notice board includes hardware, software, backend, and mobile APP to form a complete system, which is based on low-power Bluetooth or supplemented by NFC for wireless data transmission and display of image content on the electronic notice board.

DMIF075RBU1 wireless electronic notice board adopts dual-sided 7.5-inch single color (black, white, and red) E-paper display with characteristics of bistability, wide viewing angle, and high contrast. It can replace traditional paper or LCD table cards, realize flexible modification, remote control, and back-end management, improve the efficiency of conference deployment, give customers a new technological experience, enhance corporate image, and further realize the social benefits of paperless office and energy conservation.

2 Main Characteristics

◆ 2.4G BLE low-power Bluetooth, powered by two AAA batteries.

◆ Energy-saving and long battery life. With two AAA batteries, the device can last for more than 6 months at full charge (based on the frequency of refresh).

◆ Supports the screen remaining unchanged even if the battery is dead, and will not go blank.

◆ Supports three operating modes: mobile phone Bluetooth, NFC, and computer.

◆ Allows users to upload an Excel list from their computer to the server, and then change the content of the table card directly in any meeting room through a mobile APP.

◆ Double-sided 7.5-inch single-color e-paper display with 800×480 resolution.

◆ Stable in black, white, and red, with high contrast, wide viewing angle, and no

light pollution.

◆ Can use NFC to quickly update the display.

◆ The displayed image can be edited as desired and supports multiple style backgrounds.

◆ Supports multiple usage scenarios: back-end operation or on-site operation via mobile APP.

◆ Supports operation on PC with a dedicated Bluetooth base station.
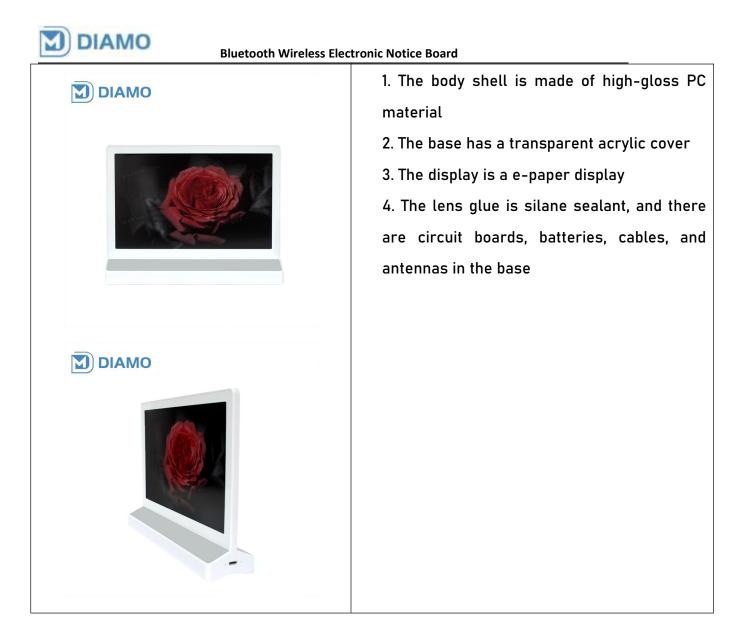
3 Parameters

Parameters	Specifications
Part No.	DMIF075RBU1
Screen Size	7.5 inch dual sides
Active Area	161.0 mm × 96.0mm
Resolution	800×480
DPI	125
Greyscale	BWR 2 level
Outline Dimension	134.0×209.2×35.2 mm；display thickness 8.5mm
Weight	400±5 g
Display Type	Bistable E Ink Display
Direction	Landscape
Viewing Angle	Near 180 Degree
Operating Temp.	0℃ ~ 35℃
Storage Temp.	-25℃ ~ 60℃
Power Supply	2 AAA batteries
Operating Voltage	2.5V ~ 3.6V
Operating Current	Update:50mA，Stand-by 0.2mA

Battery Life	Full battery life lasts for 6 months (based on laboratory data).
BLE ver	BLE 5.0 compatible
Modulation	GFSK
Data Transmission	Support 1Mbps、2Mbps
Channel Interval	2MHz
Wireless Frequency	2.402~2.480GHz
Transmit Power	-20 to +10dBm in 3dB steps
Receiver sensitivity	97dBm@BLE 1Mbps data rate -103dBm@BLE 125Kbps data rate -90dBm

4 Apperance

Product View	Materials

1. The body shell is made of high-gloss PC material

2. The base has a transparent acrylic cover

3. The display is a e-paper display

4. The lens glue is silane sealant, and there are circuit boards, batteries, cables, and antennas in the base

5 Instruction

Based on Bluetooth wireless communication technology, single or multiple devices can be updated with display content (best transmission within a radius of 5 meters). The system includes electronic table cards, an app, and cloud backend management software. The cloud platform can manage all electronic notice board devices, allowing for batch editing, transmission of device information, and rapid deployment of conference table cards. This system is suitable for scenarios with a larger number of electronic notice board devices.

The system can also be operated via NFC technology, which includes table card devices and a mobile app. By placing an NFC-enabled mobile phone near the device, the content on the device can be quickly modified. All background images

and conference contents are edited on the mobile app, which is fast without the need for pairing. This system is suitable for scenarios with a large number of desk cards that are disordered or require individual modifications.

Alternatively, a dedicated Bluetooth base station can be used to operate the devices in batches or individually via a computer (base station transmission distance within a radius of 20 meters without obstruction).

6 Software Interface

Back-end cloud-based operation for management of the list and background images. The mobile app supports data transmit in batches, quick deployment of conference table cards highly efficiently.