DISPALY MODULE SPECIFICATION

Customer: _____

Module No.: **DM-ADTT**R-034

Date: **2023-12-4**

Version: **1.0**

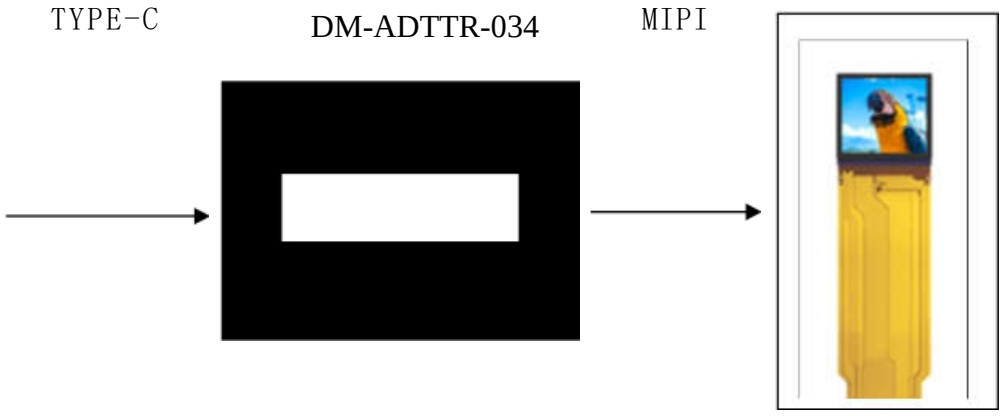
For Customer's Acceptance:

Approved by	Comment

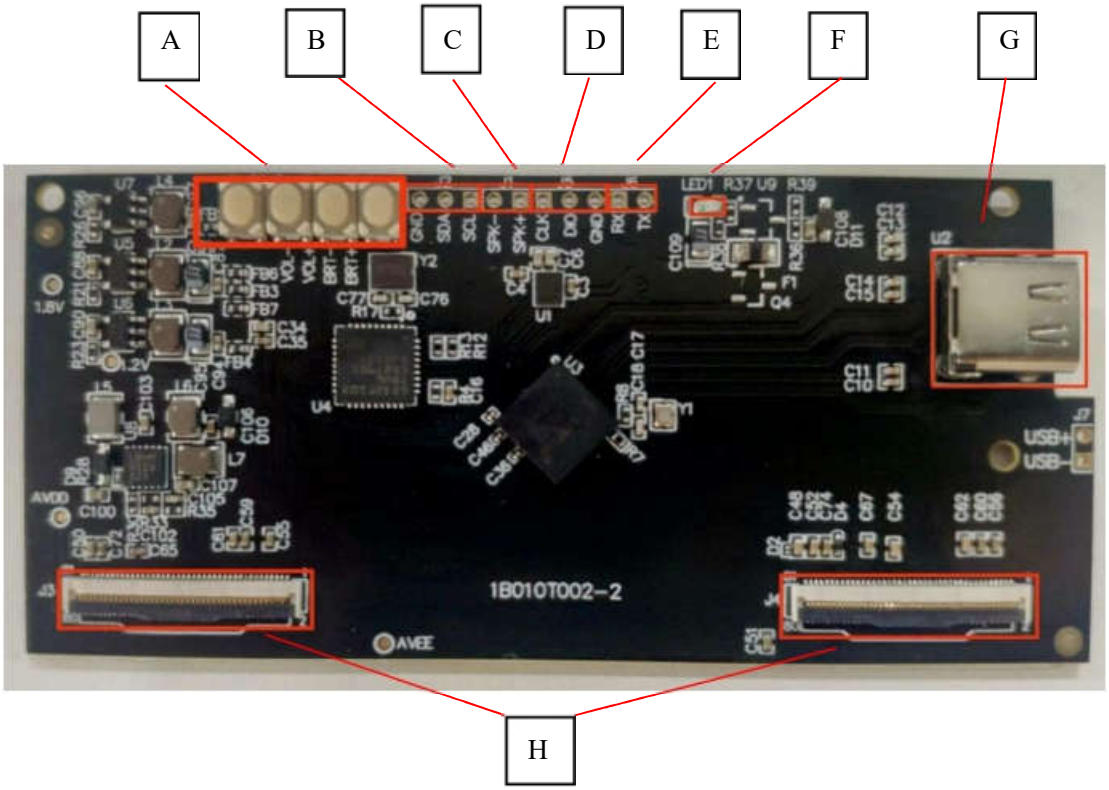
Approved by	Checked by	Prepared by

1. Product overview:

DM-ADTTR-034 is a binocular silicon OLED display driver. The product uses Type-C interface as the video data transmission interface, and the output signal is MIPI signal. It can adjust the sound size, brightness level and 2D/3D display switch by pressing the button.



2. Product interface description:



A: Control button:

VOL-: Lower the volume

VOL+: Tap to increase the volume

BRT-: Short press to reduce the screen brightness, and long press to switch to 2D/3D display

BRT+: Tap to increase the screen brightness

Note: Press BRT- and BRT+ at the same time, and then plug in the Type-C interface, you can update the MCU and LT7911B firmware with the special upper computer software provided by our company

B: I2C debugging interface: For LT7911B firmware update and debugging

C: Speaker connection port: SPK+ is the positive terminal of the Speaker, SPK- is the negative terminal of the Speaker. The default support is 1W/8 ohm, and the maximum support is 2W/4 ohm

D：SWD interface: Used for MCU firmware update and debugging。

E：UART debugging interface

F：LED indicator: When 5B0103T02-1 is powered on, the LED will show a red light

G：Full function Type-C Input interface: Type-C with DP ALT mode USB updates MCU and LT7911B firmware
H：Display interface

3. Product parameter

3.1 Driver board architecture:

GD32F103TBU6+ LT7911B+ POWER+KEY+AUDIO Amplifier

3.2 Driver board supports resolution:

2D mode: MAX 2560×2560@60Hz(The left and right screens show the same content)

3D mode: MAX 3840×1920@75Hz(The input is divided into two parts and presented on the left and right screens)

3.3 Driver board structure: