



WWTK0003-00# & WWTK0004-00#

User Guide

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1 General Description

WWTK0003-00# and WWTK0004-00# are demo kits designed to demonstrate VATN display featuring color printing and touch functionality. By simulating an air conditioner control panel, these kits allow users to better evaluate actual display effect and visual effects

VATN features high contrast and wide viewing angles. The integration of color printing enhances the visual appeal of the displayed content. Compared to full-color TFT modules, VATN technology offers significant advantages, include low cost and simpler control interface. Additionally, the touch sensors are integrated directly into the display layer. By eliminating the need for an extra layer of touch glass, this design further reduces the cost and module thickness. Together, these features deliver a more cost-effective and versatile user experience.

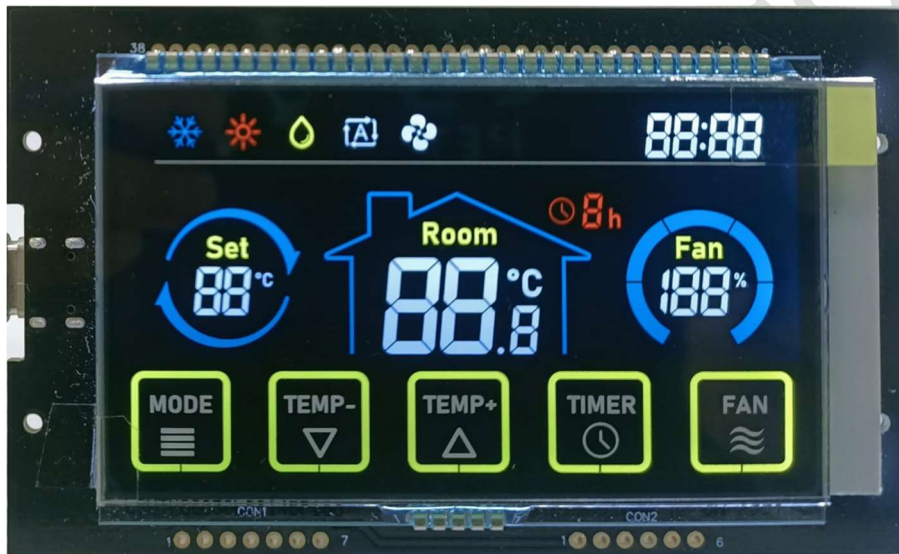


Figure 1. WWTK0003-00#.

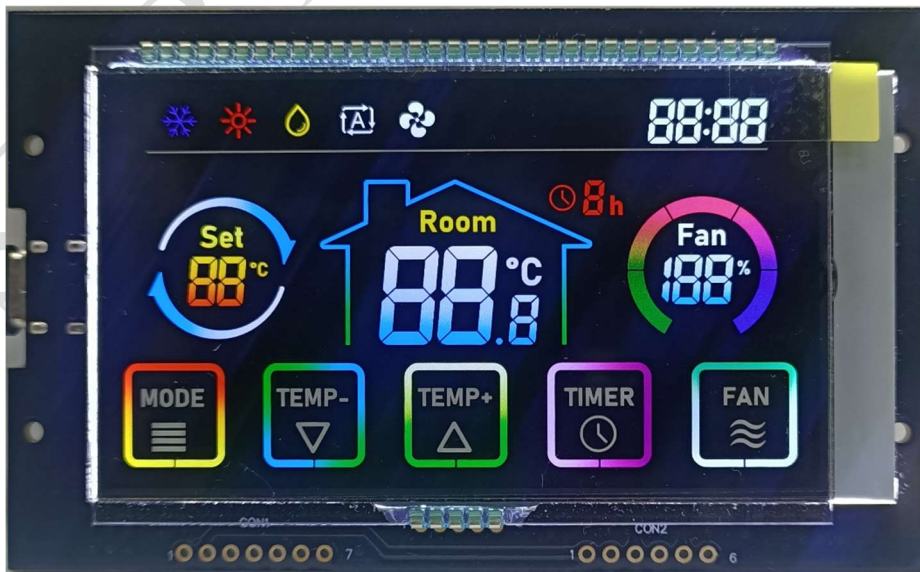


Figure 2. WWTK0004-00#

2 Electrical Characteristics

WWTK0003-00#				
Parameter	Min	Typ.	Max	Unit
Power supply voltage		5		V
Power supply current		100	225	mA
WWTK0004-00#				
Parameter	Min	Typ.	Max	Unit
Power supply voltage		5		V
Power supply current		200	300	mA

3 Hardware Configuration

This demo kit is plug-and-play. Please use a Type-C USB cable to power the device.

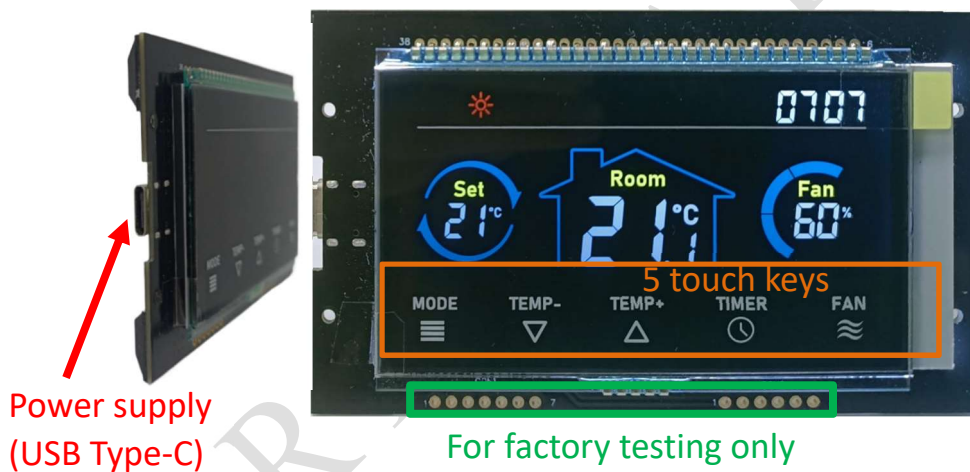


Figure 3. Hardware Layout(WWTK0003-00# shown as an example)

There are 5 touch keys as below:

Name	Description
Mode	Switch between cool, heat, dry, auto and fan modes.
TEMP-	Decrease set temperature
TEMP+	Increase set temperature
TIMER	Configure the off-timer settings
FAN	Adjust the fan speed.

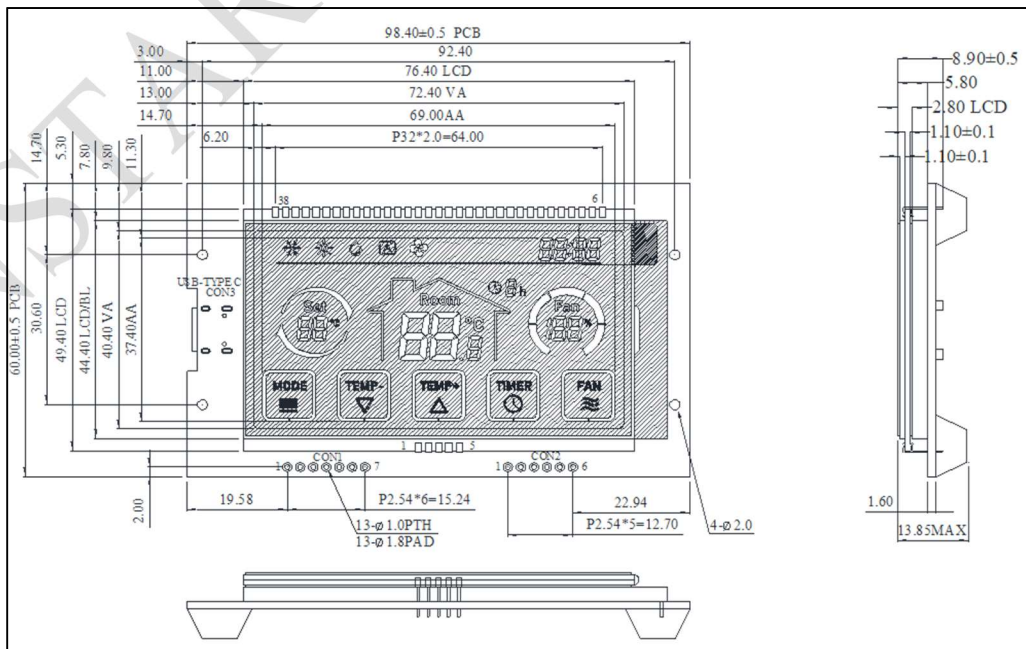
4 Viewing Angle Performance

The optimal viewing angle for the WWTK0003-00# is at 6 o'clock direction. In contrast, the WWTK0004-00# utilizes advanced full-viewing angle technology, as illustrated below. However, compared to standard VATN displays, the full-viewing angle panel has lower light transmittance. Consequently, the WWTK0004-00# requires a higher-brightness backlight. Customers are advised to select the appropriate model based on their specific application requirements.



Figure 4. The viewing angle of WWTK0004-00#

5 Contour Drawing



6 Color Printing Option

Color printing can be applied to either the top or the bottom polarizer, each producing a distinct visual effect. When printing on the top polarizer, the colored icons remain visible on the glass surface even when the module is powered off.



Conversely, if printing is applied to the bottom polarizer, the colors become visible only when the display is powered on.



Appendix I History Record

Date	Page	Contents	Editor
2024/1/11		First released	Kaori
2024/9/10	All	Add WWTk0004-00#	Kaori
2026/6/17	All	Optimize the description	Kaori

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