

MANUAL

Thanks for purchasing our product(BLUETOOTH CAR KIT). Please read this manual carefully before starting to use this device. When you use this device, you are supposed to learn well of this product.

1. There have a Blue-tooth module.

The Bluetooth chip communicates with the decoder chip through UR interface, the current status of the Bluetooth will be displayed on the LCD screen by the decoder chip . Afterwards ,the audio frequency of the Bluetooth SPK_L-, SPK_L+, SPK_R-, SPK_R+ change into two-way audio signal transmissions for the system board to work .In a word,you can link this equipment with SD or MMC see some contents what you want to watch in you car. This is very convenient to you life because of he is very delicate and fragile.

2. The TXDM12864CF-29S4 is a 128x64 dot-matrix LCD module. It has an FSTN panel composed of 128 segments and 64 commons. The LCM can be easily accessed by micro controller via serial interface.The input signal rise and fall time (t_r , t_f) are specified at 15 ns or less. All timing is specified using 20% and 80% of VDD as the standard.

3. Usually, the files used by the device are saved in the appointed folders to ensure the access for embedded program of the device. You may save files into other folders or under root directory of the SD card. If the files are saved in the appointed folders, when opening the corresponding application, these files can be seen directly; If not in the folders, then you can not see them for the application, so that you need to click "Search" button, the system will search in all files in un-appointed folders until find it and display the result of search. For the sake of convenience, it is strongly suggested to save the files into the corresponding folders.

4. Instruction Setup: With this IC,when the power is applied,LCD driving non-selective potentials V2 and V3 and V1 and V4 are output through the LCD driving output pins SEG and COM.When electric charge is remaining in the smoothing capacitor connecting between the LCD driving voltageoutput pin(V1~V5) and the VDD pin,the picture on the display may become totally dark instantaneously ehwn the power is turned on.To avoid occurrence of such a failure,we recommend the following flow when turning on the power.

PRECAUTIONS FOR USING LCD MODULES:

1. The display panel is made of glass. Do not subject it to a mechanical shock or impact by dropping it.

2. If the display panel is damaged and the liquid crystal substance leaks out, be sure not to get any in your mouth. If the substance contacts your skin or clothes, wash it off using soap and water.
3. Do not apply excessive force to the display surface or the adjoining areas since this may cause the color tone to vary.
4. The polarizer covering the display surface of the LCD module is soft and easily scratched. Handle this polarizer carefully.
5. If the display surface becomes contaminated, breathe on the surface and gently wipe it with a soft dry cloth.
6. Extra care to minimize corrosion of the electrode. Water droplets, moisture condensation or a current flow in a high-humidity environment accelerates corrosion of the electrode.
7. Install the LCD Module by using the mounting holes. When mounting the LCD Module, make sure it is free of twisting, warping and distortion. In particular, do not forcibly pull or bend the I/O cable or the backlight cable. Do not attempt to disassemble or process the LCD Module.
8. NC terminal should be open. Do not connect anything. If the logic circuit power is off, do not apply the input signals.
9. To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.

Warnings:

1. Be sure to ground the body when handling the LCD Module.
2. Tools required for assembling, such as soldering irons, must be properly grounded.
3. To reduce the amount of static electricity generated, do not conduct assembling and other work under dry conditions.
4. The LCD Module is coated with a film to protect the display surface. Exercise care when peeling off this protective film since static electricity may be generated.
5. When storing The LCD Module, avoid exposure to direct sunlight of

fluorescent lamps. Keep the modules in bags . Whenever possible, the LCD Module should be stored in the same conditions in which they were shipped from our company. Liquid crystals solidify under low temperature (below the storage temperature range) leading to defective orientation or the generation of air bubbles (black or white). Air bubbles may also be generated if the module is subject to a low temperature.

6. If the LCD Module have been operating for a long time showing the same display patterns the display patterns may remain on the screen as ghost images and a slight contrast irregularity may also appear. A normal operating status can be recovered by suspending use for some time. It should be noted that this phenomenon does not adversely affect performance reliability.To minimize the performance degradation of the LCD Module resulting from destruction caused by static electricity etc.exercise care to avoid holding the following sections when handling the modules.

9. LCD is composed of glass and polarizer. Pay attention to the following items when handling.Please keep the temperature within specified range for use and storage. Polarization degradation, bubble generation or polarizer peel-off may occur with high temperature and high humidity.Do not touch, push or rub the exposed polarizers with anything harder than a HB pencil lead.N-hexane is recommended for cleaning the adhesives used to attach front/rear polarizers and reflectors made of organic substances, which will be damaged by chemicals such as acetone, toluene, toluene, ethanol and isopropyl alcohol.When the display surface becomes dusty, wipe gently with absorbent cotton or other soft material like chamois soaked in petroleum ether.

10. Do not scrub hard to avoid damaging the display surface.Wipe off saliva or water drops immediately, contact with water over a long period of time may cause deformation or color fading. Further more condensation on the surface and contact with terminals due to cold will damage,stain or polarizers. After products are tested at low temperature they must be warmed up in a container before coming is contacting with room temperature air.

11. Precautions for operation: Viewing angle varies with the change of liquid crystal driving voltage (V_0). Adjust V_0 to show the best contrast.Driving the LCD in the voltage above the limit will shorten its lifetime.Response time is greatly delayed at temperature below the operating temperaturerange. However, this does not mean the LCD will be out of the order. It will recover when it returns to the specified temperature range.If the display area is pushed hard during operation,

the display will become abnormal. However, it will return to normal if it is turned off and then on. Condensation on terminals can cause an electrochemical reaction disrupting the terminal circuit. Therefore, it must be used under the relative condition of 40 °C, 50% RH. When turning the power on, input each signal after the positive/negative voltage becomes stable.

FCC NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER ' S AUTHORITY TO OPERATE THE EQUIPMENT.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation