DWIN HMI 5 Inch TN LCD Resistive Touch Display

The DWIN 5.0 inch display with a resolution of 480x272, 65K color, is a commercial high-standard TFT LCD module HMI display with a resistive touch panel. The model DMT48270C050_06W is an intelligent resistive touchscreen with a UART port that can be controlled by any MCU via commands, making it usable as a TFT display & touch controller in various electronic equipment. The LCD display screen panel, touch LCD screen, and DWIN display are your best choices for HMI projects. The DMT48270C050_06W LCD display is based on the DWIN T5 CPU with GUI and OS dual-core. The GUI kernel can support UI interface design based on powerful DWIN design software tools, including data, text, curves, basic graphics, key-value uploading, etc. The OS kernel can be opened to customers for secondary development in the OS compilation, and it enhances the functionality of the GUI. All MCUs can connect with the DWIN smart display.

Description:

About DWIN: Based on Human-Machine Interaction, DWIN technology is mainly for Industrial LCD Panel, TFT LCD Module, HMI Display, and Touch Screen, providing the Whole Product Line Solution, technical consultation, and after-sales service for all types of display modules, offering HMI Panel, Industrial Displays, interactive touch panel, capacitive/resistive touch screens. Our touch panels range from 2 inches to 21.5 inches and can be applied to new energy, financial equipment, engineering machinery, medical instruments, industrial equipment, and consumer electrical products. We can be your Best Partner for Double Winning.

About the Product: Hot sale and welcomed 5.0 inch High standard TFT LCD Module HMI Display with Touch Panel. The model DMT48270C050_06W is the intelligent capacitive/resistive touch screens with UART PORT which can be controlled by ANY MCU via Simple Powerful Command set, so it can be used as TFT Display & Touch controller in various electronic equipment. The LCD display screen panel, touch LCD screen, DWIN display is your best choice for HMI project

Accessory

| HDL662B adapter | HDLUSB cable | SD001 card | FCC1015A cable | FCC-10-1.0 cabinet |

Working Principle

Control TFT Touch Display
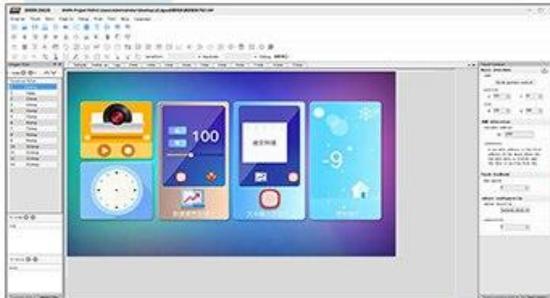

Smart TFT Display With CPU

UART
INSTRUCTION

MCU

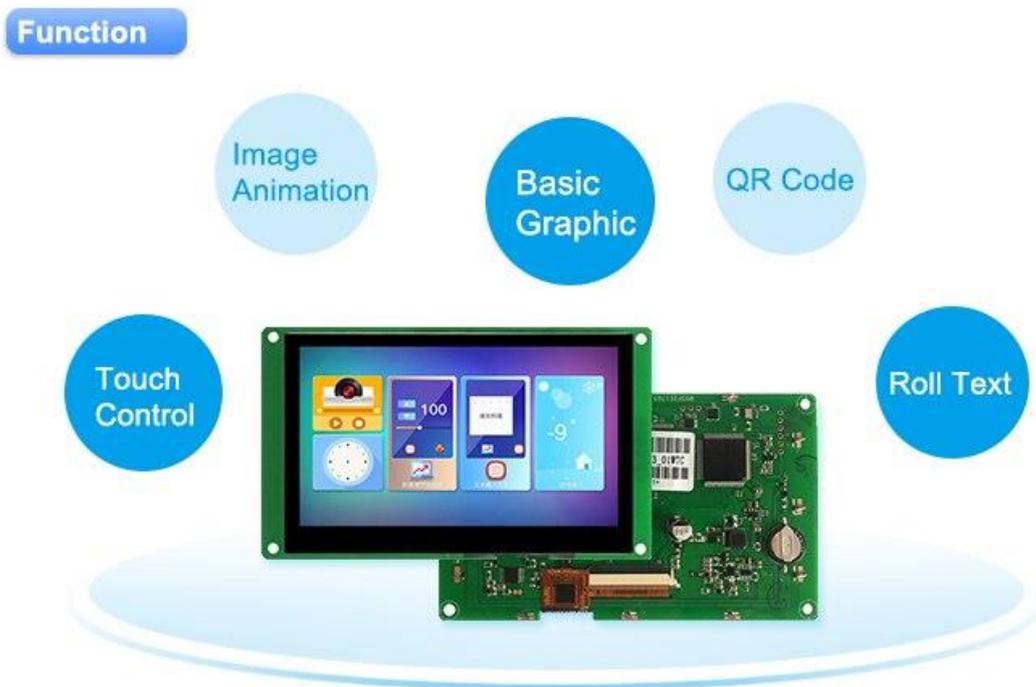Any MCU controller

Equipment

Operation

Design excellent GUI by professional design tools (e.g Photoshop) and configured by DGUS software to realize wonderful effect ,such as button ,text ,animation ,progress car ,curve and so on .

Connect with customer's MCU through RS232/RS485/TTL level directly

Human-computer interaction supported by 5 instructions easily

DMT48270C050-06WN/WT

Display	
Color	65K(65536) Colors
Display Area (A.A)	110,9mm(W)× 62,8mm(H)
Resolution	480 × 272 Pixel
Backlight	LED
Brightness	DMT48270C050_06WN:350nit DMT48270C050_06WT:300nit
Voltage & Current	
Power Voltage	4.5 ~ 5,5 V
Operating Current	VCC = + 5V, Backlight on,, 200mA
	VCC = + 5V, Backlight off,,80mA
Reliability Test	
Working Temperature	-20 ~ 70 ℃
Storage Temperature	-30 ~ 80 ℃
Working Humidity:	10% ~ 90% RH
Interface	
Baudrate	7841 ~ 7833600bps, Typical. 115200bps

Output Voltage	Output 1, Iout = 1mA; 3.0 ~ 3.3 V
	Output 0, Iout = -1mA; 0 ~ 0.3 V
Input Voltage (RXD	Input 1, Iin = 1mA; 2.4 ~ 5.0 V
	Input 0, Iin = -1mA; 0 ~ 0.5 V
Interface	UART2:N81, 3,3 V & 5V TTL/CMOS UART4: Optional N81/E81/O81/N82 mode, 3.3 V & 5V TTL/CMOS (to be u
Socket	10Pin _ 1,0mm FCC
SD slot	Yes(SDHC/FAT32 Format)
Speaker	2PIN _ 2,0mm
Peripherals	
DMT48270C050_06WN	Speaker
DMT48270C050_06WT	Resistive touchscreen, Buzzer
Packaging Capacity and Dimension	
Dimension	DMT48270C050_06WN: 143.5(W)× 80,9 (H)× 14,1mm DMT48270C050_06WT: 143.5(W)× 80,9 (H)× 15,6mm
Net Weight	DMT48270C050_06WN: 120g DMT48270C050_06WT: 150g