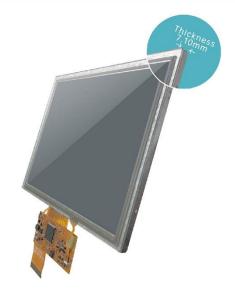
# Integrated LCD with CPU



#### DMG80600F080\_01WN

TP type: Without touch Display type: TN Pixel: 800\*600



#### DMG80600F080\_01WTR

TP type: RTP Display type: TN Pixel: 800\*600



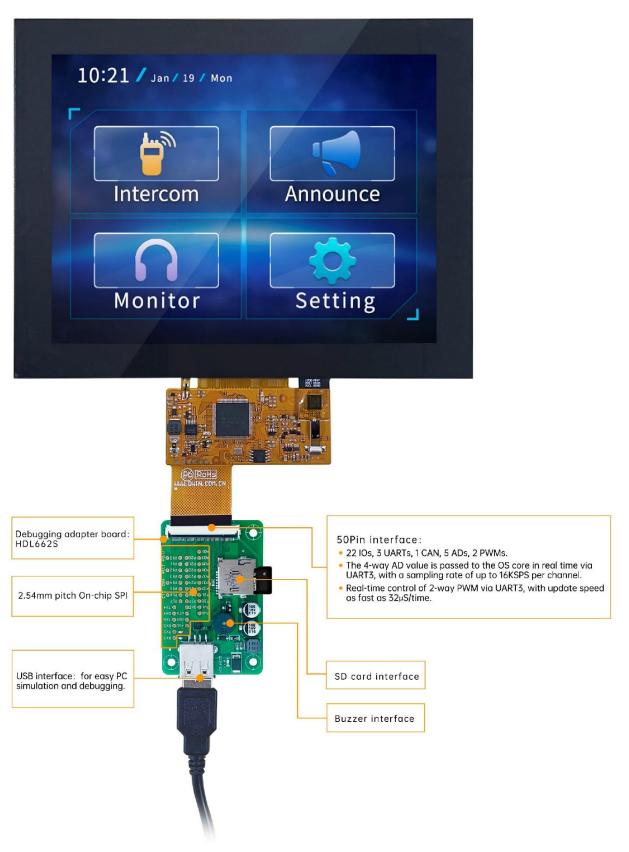
#### DMG80600F080\_01WTC

TP type: Black CTP Display type: TN Pixel: 800\*600



#### DMG80600F080\_01WTCZ01

TP type: White CTP Display type: TN Pixel: 800\*600



#### **Features:**

- •Based on T5L1, running DGUS II system.
- •8.0-inch, 800\*600 pixels resolution, 16.7M colors, TN TFT display.
- •COF structure. The entire core circuit of the smart screen is fixed on the FPCof LCM, featured by light and thin structure, low cost and easy production.
- •50 pins, including IO, UART, CAN, AD and PWM from user CPU core for easy secondary development.

#### **Product Parameters**

wrs
DMG80600F080_01WTC
T5L1
50Pin_0.5mm FPC
16M Bytes
DGUSII / TA
HDL662S adapter board power supply
16.7M colors
8.0-inch
800*600
162.0mm (W)×121.5mm (H)
162.0mm (W)×121.5mm (H)
TV viewing angel, typical value of 70°/70°/40°/30°(L/R/U/D)
> 10000 hours (Time of the brightness decaying to 50% on the
condition of continuous working with the maximum brightness)
250nit
0~100 grade (When the brightness is adjusted to 1%~30% of the maximum
brightness, flickering may occur and is not recommended to use in this range)
CTP (Capacitive Touch Panel)
G+G structure
Single point touch, support continuous sliding touch
6H
Over 85%
Over 1,000,000 times touch

### **Interface Parameters**

Item	Conditions	Min	Тур	Max	Unit
Baudrate	User Set(Configure the CFG file)	3150	115200	3225600	bps
Output Valtage (TVD)	Output 1	3.0	3.3	-	V
Output Voltage (TXD)	Output 0	1	0	0.3	V
Input Voltage (RXD)	Input 1	-	-	3.3	V
input voitage (KAD)	Input 0	0	-	0.5	V
	UART2: TTL; UART4: TTL; (Only available after OS configuration) UART5: TTL; (Only available after OS configuration)				
Interface					
UART2: N81					
Data Format	UART4: N81/E81/O81/N82; 4 modes (OS configuration) UART5: N81/E81/O81/N82; 4 modes (OS configuration)				

# **Electrical specifications**

Rated Power	<5W		
Operating Voltage	4.5~5.5V, typical value of 5V		
Operating Current	580mA	VCC=5V, max backlight	
	160mA	VCC=5V, backlight off	
Recommended power supply: 5V 1A DC			

# **Operating Environment**

Operating Temperature	-10°C~60°C (5V @ 60% RH)
Storage Temperature	-20°C~70°C
Operating Humidity	10%~90%RH, typical value of 60% RH

#### **Packing Capacity & Dimension**

Dimension				
Dimension	197.0(W) ×155.0 (H) ×7.38(T) mm			
Net Weigh	310g			
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton 1:	220mm(L)×160mm(W)×47mm(H)	1	-	-
Carton 2:	250mm(L)×200mm(W)×80mm(H)	1	2	2
Carton 3:	320mm(L)×270mm(W)×80mm(H)	-	-	-
Carton 4:	450mm(L)×350mm(W)×300mm(H)	2	5	10
Carton 5:	600mm(L)×450mm(W)×300mm(H)	3	10	30

#### **ESD Test**

Test temperature: 25°C

Test process: the product was placed on the test bench to perform contact and air discharge in turn of the serial screen iron frame and display area. During the experimental process, it was observed whether the screen is dead, black, white, splash, or reboot. According to the experiment results, the performance is in line with the criteria GB/T 17626.2 B level and above.

Electrostatic discharge test			
Discharge Type	Discharge Value	Result	
Contact discharge	±4KV	Normal operation	
Air discharge	±4KV	Normal operation	

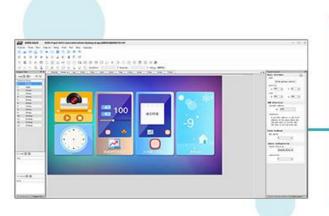
## **High and Low Temperature Test**

Test temperature:-20~70°C

Test process: the product will be placed obliquely in the high and low temperature test chamber for 12h for 20 on and off cycles. Then it will be check at room temperature after power on for the appearance and function, CTP offset situation, jumping point, page random switching and failure.

Temperature	Result
High temperature (70°C)	Normal operation
Low temperature (-20°C)	Normal operation

# 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

