



**Display**

Item	Parameter	Description
Color	16.7M (16777216) colors	24 bit color 8R8G8B
Panel Type	IPS	IPS process TFT LCM ,wide viewing angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View:symmetrical
Active Area (A.A.)	67.96mm (W)*67.96mm (H)	480*480 Pixel
Resolution	480*480 Pixel	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥20000H(Continuous working with maximum brightness, time of the brightness decays to 50%)
Brightness	250nit	100 levels adjustment.(It's not recommend to set brightness to 1%~30% of the maximum,which may lead LCD flicker)

Note: Displaying of high-contrast still images for more than 30 minutes may result in residual images. Please add animation to avoid this problem.

**● Voltage & Current**

Item	Conditions	Min	Typ.	Max	Unit
Power Voltage	-	4.5	5.0	5.5	V
Operation Current	VCC = +5V, Backlight on	-	180	-	mA
	VCC = +5V, Backlight off	-	70	-	mA

Recommended power supply: 5V 1A DC

**● Operating Environment**

Item	Conditions	Min	Typ.	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	℃
Storage Temperature	-	-30	25	85	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	None	-	-

**● Interface**

Item	Conditions	Min	Typ.	Max	Unit
Baud Rate	User Set	3150	115200	3225600	bps
Output Voltage (TXD)	Output 1, Iout = 1mA	3.0	-	3.3	V
	Output 0, Iout = -1mA	-	0	0.3	V
Input Voltage (RXD)	Input 1, Iin = 1mA	2.7	3.3	-	V
	Input 0, Iin = -1mA	0	-	1.2	V
Interface	UART2: N81,3.3V & 5V TTL/CMOS UART4: Optional N81/E81/O81/N82 four mode, 3.3V & 5V TTL/CMOS(Be used after OS Configuration) UART5: Optional N81/E81/O81/N82 four mode, 3.3V & 5V TTL/CMOS(Be used after OS Configuration)				
Socket	FCC40_0.5 mm				
USB	None				
SD Card Slot	None				

### ● Memory

Item	Parameter	Min	Typ.	Max	Unit
FLASH (TA/DGUS II)	16Mbytes	Space of Font	4-12	Mbytes	A single font of 256Kbytes,store font, icon libraries,and other binary files
		Picture Storage (.ICL file)	12-4	Mbytes	JPEG format(Picture quantity relate to JPEG size,size of a single JPEG image file should not exceed 256Kbytes)
RAM (DGUS II)	128Kbytes	Variable Storage Space	/	/	Data is not saved when power down
Nor Flash (DGUS II)	512Kbytes	User database	/	/	Data is saved when power down

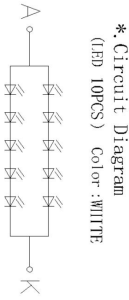
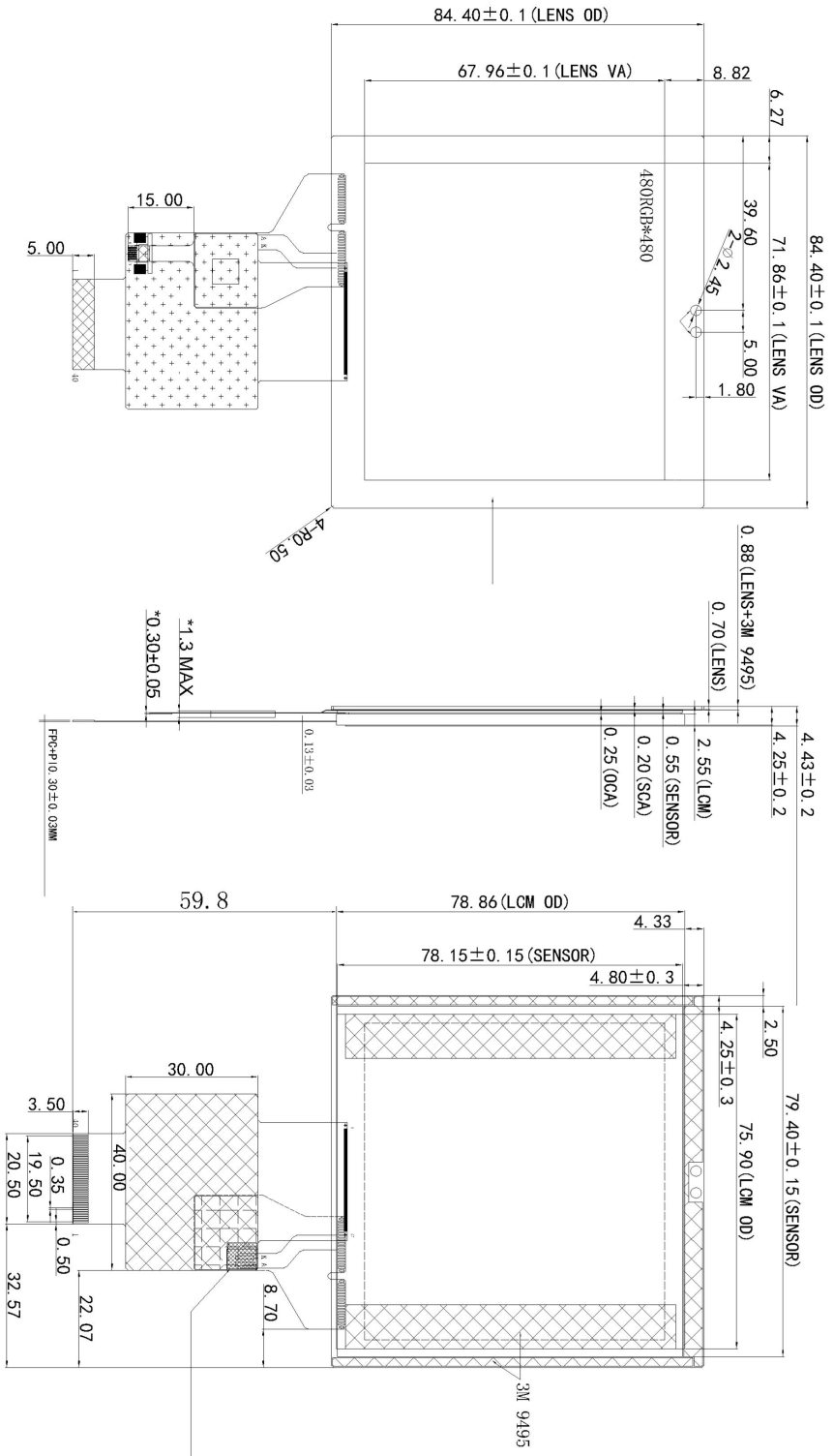
### ● UI & Peripheral

UI & Peripheral	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripheral	Capacitive touch panel

### ● Packing Capacity & Dimension

Dimension				
Dimension	84.4(W) * 84.4(H) * 4.43mm			
Net Weight	80g			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	2	2	4
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	2	8
Carton3:	320mm(L)*270mm(W)*80mm (H)	4	4	16
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	120	120
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	240	240

Disclaimer: The product design is subject to alternation and improvement without prior notice.



PIN Definition

PIN#	Name	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	GND	TX2	TR5	TR4	RX5	TX5	RX4	TX4	ADC6	ADC7	VBAT	SPK	VCC_EN	SD-CLK	SD-CMD	DATA0	DATA1	DATA2	DATA3	+5V	+5V
2	GND																				
3	I01																				
4	I02																				
5	I03																				
6	I04																				
7	I05																				
8	I06																				
9	I07																				
10	I08																				
11	I09																				
12	I010																				
13	I011																				
14	I012																				
15	I013																				
16	I014																				
17	I015																				
18	I016																				
19	I017																				
20	RX2																				

- NOTES:
1. DISPLAY TYPE : 16.7M COLOR TFT-LCD, TRANSMISSIVE, NORMALLY BLACK;
  2. OPERATING TEMP: -20°C~70°C;
  3. STORAGE TEMP: -30°C~80°C;
  4. Backlight: 12 Chip-White LEDs I<sub>F</sub>=40mA;
  5. Module BRIGHTNESS: 300cd/m<sup>2</sup>(typ)
  6. GENERAL TOLERANCE: ±0.2mm
- The key size marked with "H", complies with ROHS requirements

Model	DMG48480C040-06WTC			DWIN Technologies
Drawing	A 4	Drawn	DWIN	
Scale				
Unit	MM			

**Record of Revision**

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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