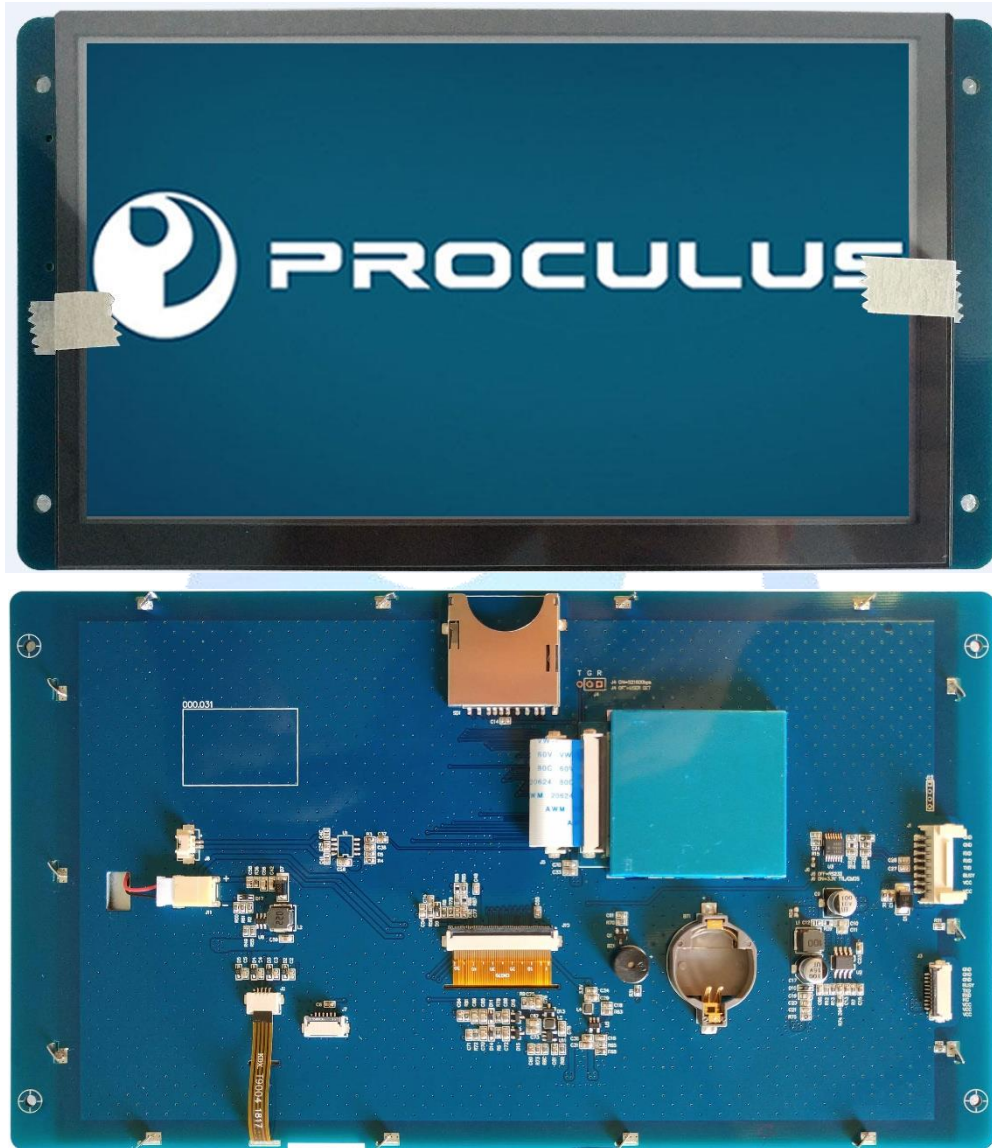# P80480J70I_X06

(X can be defined as N/T/P; N=No Touch/T=Resistive Touch/P=Pcap Touch)

7.0 Inches, 800xRGBx480, 65K Colors

Modification Record

Date	Content
2016/11/01	First release
2024/08/08	Fix type error、Optimize dimensional diagram information

Features

- Support RS232/TTL/CMOS, the max baud rate is 921600bps;
- Support audio
- Support hardware JPG decoding which makes storage more efficient and display quicker;
- Support offline batch download through USB Flash Drive, which improves download efficiency and reduce requirements for operators;
- Support backlight brightness adjustment and automatic standby screen saver function;
- Support multi-language font library, picture, TWO-DIMENSIONAL code display;
- Support number and English input, customizable keyboard interface;
- Support 90 degrees, 180 degrees, 270 degrees screen rotation, adjustable visual angle;
- Easy-to-use UnicView GUIs Development, no coding skills required;
- Instant operation when power on without system load time;
- Excellent electromagnetic compatibility characteristics.

Display

Color	65K (65536) colors，16 bit color 5R6G5B
ACTIVE AREA / View Area	154.1mm(width)×85.9mm(height)/156.4 mm(width)×88.8 mm(height)
Resolution	800*480，90° rotated display (480*800)
Backlight /Lifecycle/Brightness	LED/20,000 HOURS/ 900 cd/m²（without TP), 750 cd/m²（with TP)
Working Temperature	-10~+60℃/-30~+85℃

Voltage & Current

Item	Condition	Min.	Typ.	Max.	Unit
Power Voltage		—	12	—	V
Operation Current	VIN = 12V, Backlight on	—	750	—	mA
	VIN = 12V, Backlight off	—	170	—	mA

Recommended Power Supply: 12V 1A DC

Reliability Test

Item	Condition	Min.	Typ.	Max.	Unit
Working Temperature	60%RH at 12V voltage	-10	25	60	℃
Storage Temperature	-	-30	25	85	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	None	-	-
Aging Test	-	-	8	-	H

Interface

Item	Condition	Min.	Typ.	Max.	Unit
Baud Rate	Standard	1200	115200	921600	bps
	User Defined	1200	-	921600	bps
Output Voltage (TXD、BUSY)	Output 1,Iout=1mA	3.0	3.2	-	V
	Output 0,Iout=-1mA	-	0.1	0.2	V
Input Voltage (RXD)	Input 1,Iin=1mA	2.0	3.3	15.0	V
	Input 0,Iin=-1mA	-15.0	0.0	0.3	V
Interface	Mode is determined by Jumper6: ON = 8N1, 3.3V TTL/CMOS; OFF = 8N1, RS232				
Socket	HY2.0-8P/10pin,1.0mm FFC				
USB	Reserved (If needed, please contact our sales representative.)				
SD slot	Yes (SD/SDHC, FAT32 file format)				

Memory

Item	Parameter	Min	Typ.	Max	Unit
Flash	Space of Font	-	32	-	MB
	Picture Storage (128MB)	-	-	93	Pcs
	Picture Storage (256MB)			215	Pcs

	Picture Storage (1GB)	-	-	932	Pcs
	User's Storage	0	-	32	MB

Peripherals	
Buzzer	Yes
RTC	Yes
Resistive touch screen	Yes
SD Card	Yes
Audio	Yes

Model number	
P80480J70I_N03	No Touch
P80480J70I_T03	Resistive Touch
P80480J70I_P03	Pcap Touch

Packaging and physical dimensions	
Parameter	**Data**
Dimensions	190.4(width) ×105.2(height) ×16.6 (thickness)mm
Net weight of single piece	TBD
Weight of whole case	TBD

Immunity Test

ESD test for electrostatic discharge

Test ambient temperature: 25℃

Test ambient humidity: 50%

Test process: Carry out contact and air discharge on the periphery of the iron frame and the display area of the serial port screen in turn, and observe whether the screen has abnormal working phenomena such as reset restart, black screen, white screen, communication interruption, and other abnormalities.

Discharge type	Discharge value	Result
Contact discharge	±6KV	Working properly.
Air discharge	±15KV	Working properly.

Note: All tests are conducted when the products are exposed. In the actual use process, when the serial port screen is assembled on the user equipment, the screen and the equipment are kept well-grounded, the ESD performance of the whole machine will be better.
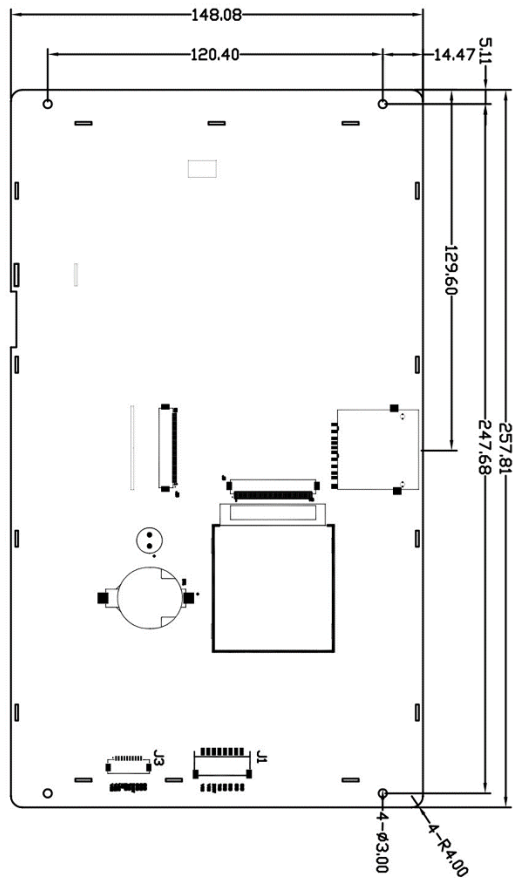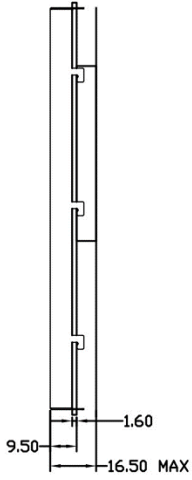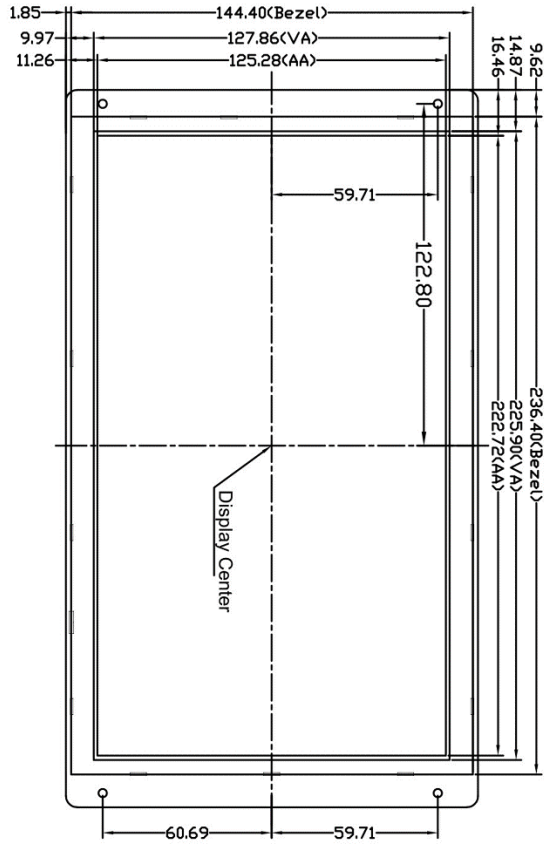
EFT Test

Test ambient temperature: 25℃

Test ambient humidity: 50%

Test process: The power supply line supplies power to the screen through the power supply after the pulse Group generator is coupled with the pulse Group; the serial port signal line carries out serial port communication with the screen through the signal after the pulse Group generator is coupled with the pulse Group; and the screen is observed whether abnormal working phenomena such as reset restart, black screen, white screen, abnormal communication, and communication interruption.

Test item	Test standard		Result
	Voltage	Frequency	
Power cord	4 KV	100 KHz	Working properly.
Signal line	2 KV	100 KHz	Working properly.

Part No. P80480J70I_X06

Part No.		P80480J70I_X06		
Datasheet	A4	Drawn by	Proculus	Date
Proportion	1:1	Verified by		Date
Unit	mm	Confirmed by		Date

1.Location hole is used as position reference

2.Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines