

DMT80480T070_15WT

7.0 Inches, 800xRGBx480, 65K Colors, DGUS LCM



Record of Revision

Revise Date	Content
2014-12-25	First Edition
2015-09-14	Modify the max baudrate
2016-10-09	Update the Dimension Drawing
2018-06-05	Add instructions about brightness adjusting
2018-11-19	Update installation guide

● Hardware Features

Item	Parameter	Description
LCD Type	TFT	
Resolution	800×480	90° rotation by configuration file (480×800)
Color	65K(65536)colors	16 bit color 5R6G5B
Active Area(A.A.)	154.1mm(W)×85.9mm(H)	
Touchscreen Type	4-wire resistance touchscreen	
Touchscreen Inaccuracy	+/- 0.5%	Calibrate on running.
Backlight Type	LED	≥30000H (Continuous working with maximum brightness, time of brightness halves)
Brightness	300nit	64 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum,which may lead a flicker); Touchscreen control brightness and light time.
SD Slot	SD/SDHC	FAT32 file format; Download and upgrade pictures, fonts and configuration files.
RTC Accuracy	1 sec/24hours	25℃
Other Hardware	Buzzer	Software controls tweet; Automatically sound prompts when effective touch button is clicked.
Notice: Displaying a high contrast still screen for more than 30 minutes may result in an image blurring.Please add the screensaver to avoid .		

● Working Environment & Reliability Test

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	℃
Storage Temperature	-	-30	25	85	℃
Working Humidity	25℃	10%	60%	90%	RH
Aging Test	-	-	24	-	H
ESD Protection Grade	IEC Class 4 (Touch and air)				
Protection Grade	IP65 (Front)				
Other Certification	CE RoHS				

● Interface

Item	Description	
Power Voltage	DC 6.0V-42.0V,with Reverse Polarity Protection	
Power Consumption	4.2W (12V 350mA)	
Baudrate	Min	1200 bps
	Typ.	115200 bps
	Max	250kbps(RS232)/1Mbps(RS485)
Interface Model	N81	
Interface Protocol	RS485 & RS232	
Socket	6Pin_3.81mm	

● Software Features

Item	Description
Software Platform	DWIN DGUS system software
Register Space	256 Bytes
Variable Storage Space	56K Bytes
Fonts & Icons Storage Space	32M Bytes
Pictures Storage Space	224MB, 278 full-screen pictures

● Installation Features

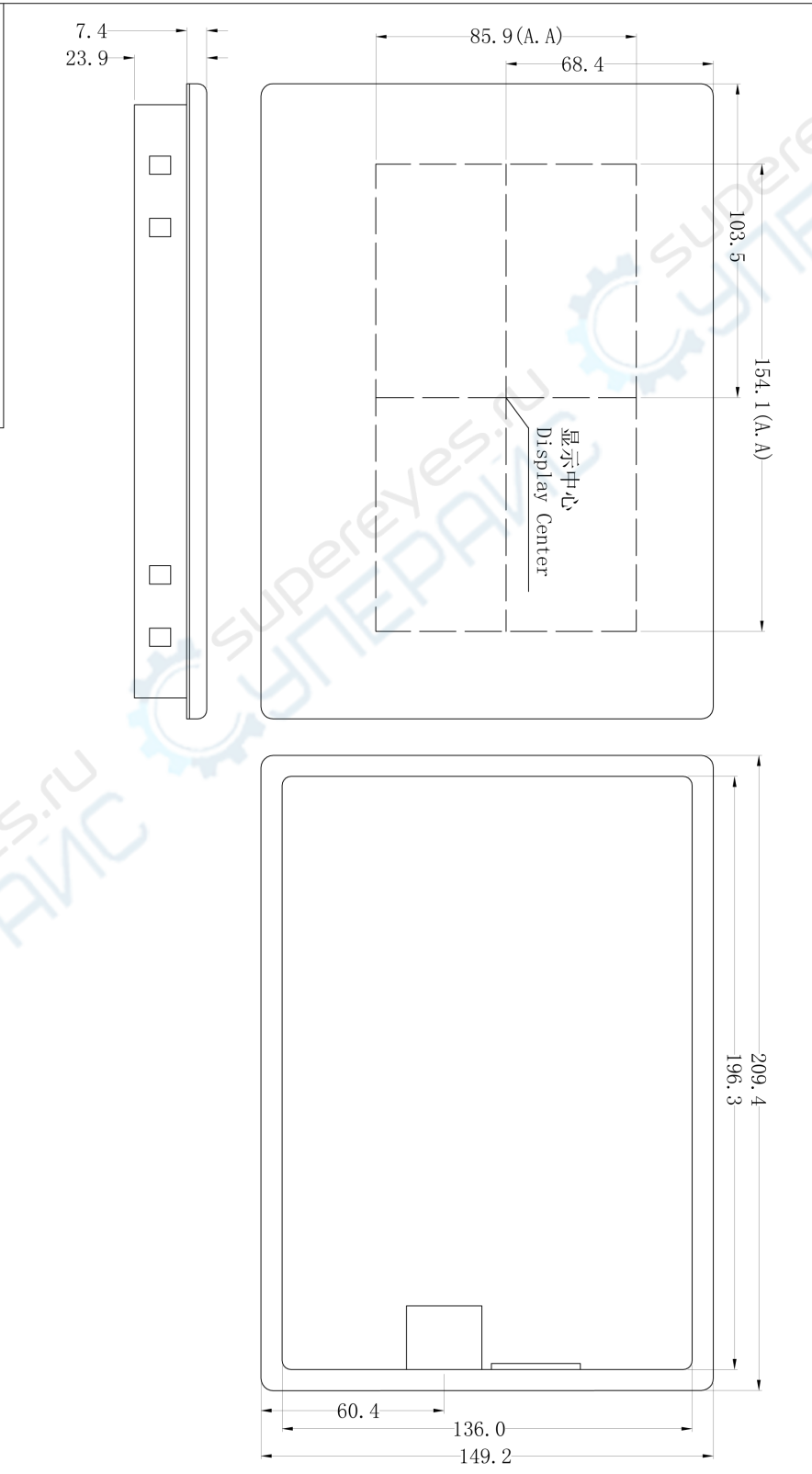
Item	Description
Case Material	Engineering Plastic
Case Color	Black
Dimension	209.40(mm)×149.2(mm)×23.9(mm)
Hole Size	197.30(mm)×137.0(mm)
Installation Depth	20.85(mm) (incl. 6pin_3.81mm Phoenix Connector)
Weight	500g
Accessories	Waterproof rubber gasket, buckles
Snap screw	2kgf.cm~2.3kgf.cm

Remark: There is no extra-notice if the product design changes that do not affect performance parameters and use

引脚名称	引脚定义	引脚类型	说明
VIN	1	P	电源输入/Power INPUT
232_Rx	2	Input	迪文屏串口输入/DIN
232_Tx	3	Output	迪文屏串口输出/DOUT
485_+	4	A	迪文屏485+
485_-	5	B	迪文屏485-
GND	6	GND	公共地/GND

1. 尺寸定位基准为显示中心
Display center is used as position reference.
 2. 未标注公差为 $\pm 0.3\text{mm}$
Unmarked tolerance is $\pm 0.3\text{mm}$.
- 注: 虚线标注为有效显示区域
Display Area is marked in Dash lines.

型号	DMT80480T070_15WT
图纸	A4
比例	1:1
单位	mm
绘图	DWIN
审核	
日期	
批准	
日期	
北京迪文科技 Beijing DWIN Technology Co., Ltd	



DMT80480T070_15WTguide



Rubber gasket:Used to prevent water from entering the shell.
In outdoor use, the glass glue can be added to the waterproof adhesive tape to enhance the waterproof performance.

HMI installation guide



Figure 1

Embed HMI in the opening from front

Opening size:198.1*137.5mm(W*H),
 Installation depth:15.9-X(waterproof strif
 thickness)mm
 Customer shell thickness:<3.5mm



The mounting holes are marked by the red circles

Figure 2



Place the buckles into the mounting holes as shown above, and pull back to tighten the hook on the shell

Figure 3



Tighten the screws to fix HMI on the device

Figure 4

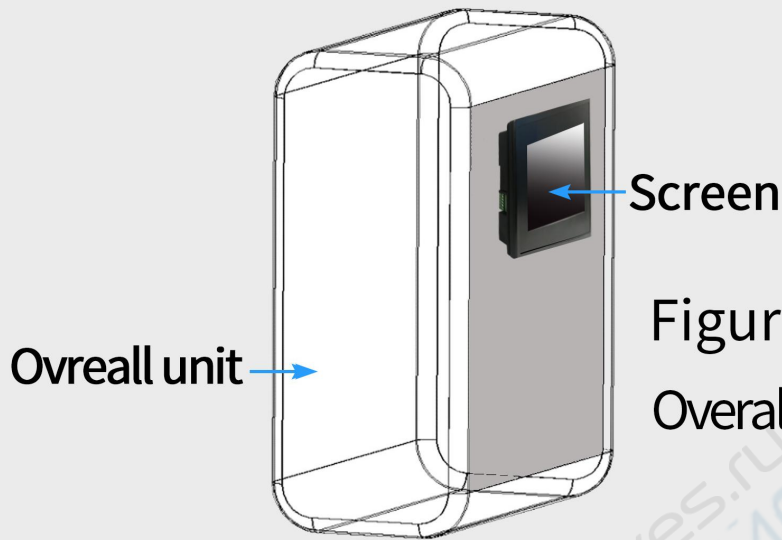


Figure 5

Overall installation diagram

