

**SPECIFICATION
FOR
TFT070A103R
(TFT PN:TFT070A103R)**

Customer Approval:

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	SIGNATURE	DATE
PREPARED BY		2019.7.25
CHECKED BY		2019.7.25
APPROVED BY		2019.7.25

Notes:

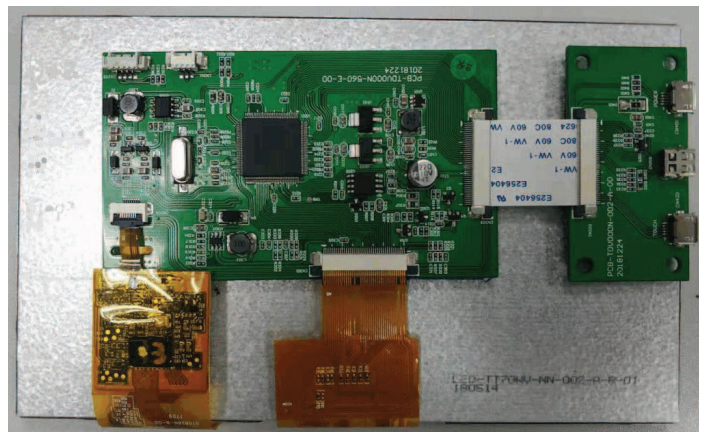
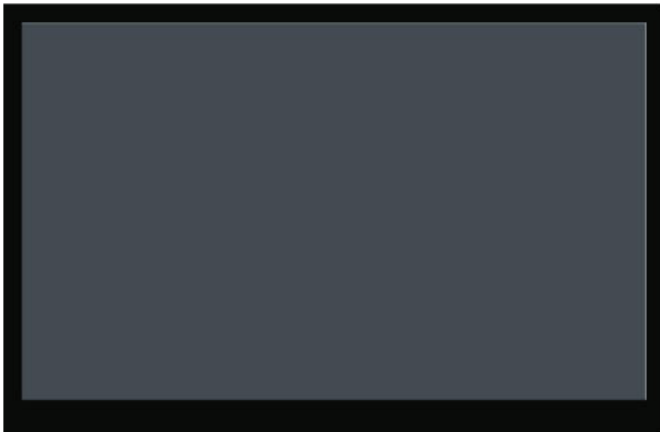
- 1、 Please contact GTK before assigning your product based on this module specification.
 - 2、 To improve the quality of product, and this product specification is subject to change without any notice.
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1. Product Overview

This product is a multi-purpose touch control machine. The high performance 32 bit video processing chip is used as the core processor. It uses the company's own research and development of TFT LCD screen, CTP touch screen, video control panel for the combination. Input display screen through HDMI video input interface. At the same time, touch function is realized through USB touch interface. The product has stable performance, good display effect and touch effect, and can fully meet the application needs of different occasions.



2. Product Features

2.1 Video Performance Parameters

Item	Parameters	Description
Color depth	16.7M	
Display size	164.90 mm(width) x 100 mm(height)	Boundary dimension
View size	154.2144 mm(width) x 85.92 mm(height)	7.0 Inch
Resolution	1024*600	
Brightness	250 nit	
Backlight	LED	
Contrast ratio	800:1	
Viewing direction	12 O' clock	
Touch type	Capacitive screen	Support multi-touch

2.2 Electronic Performance Parameters

Item	Test Condition	Min	Typ	Max	Unit
Working Voltage		-	5	-	V
Working Current	VDD=5V 25°C Backlight Max	-	650	-	mA
Standby Current	VDD=5V 25°C Standby mode	-	-	-	mA

2.3 Environmental Performance Parameters

Item	Test Environmental	Min	Typ	Max	Unit
Operation temperature	VDD=5V, Humidity 60%	-20	25	70	°C
Storage temperature		-30	25	85	°C
Humidity	25 °C	10%	60%	90%	RH

3. Functional Description

3.1 Interface

Item	Function	Description
USB	Power input	5V USB Micro-B
HDMI	Video input	HDMI Type -D
USB	Touch function	5V USB Micro-B
KEY	Key function	Support

MICRO HDMI Interface

Pin	Signal Name	Pin	Signal Name	Pin	Signal Name
1	Hot Plug Detect	8	TMDS Data 1-	15	CEC
2	Utilty	9	TMDS Data 0+	16	GND
3	TMDS Data 2+	10	GND	17	SCL
4	GND	11	TMDS Data 0-	18	SDA
5	TMDS Data 2-	12	TMDS Clock +	19	+5V Power
6	TMDS Data 1+	13	GND		
7	GND	14	TMDS Clock -		

USB Touch Interface

Pin	Signal Name	Pin	Signal Name
1	5V	4	
2	D-	5	GND
3	D+		

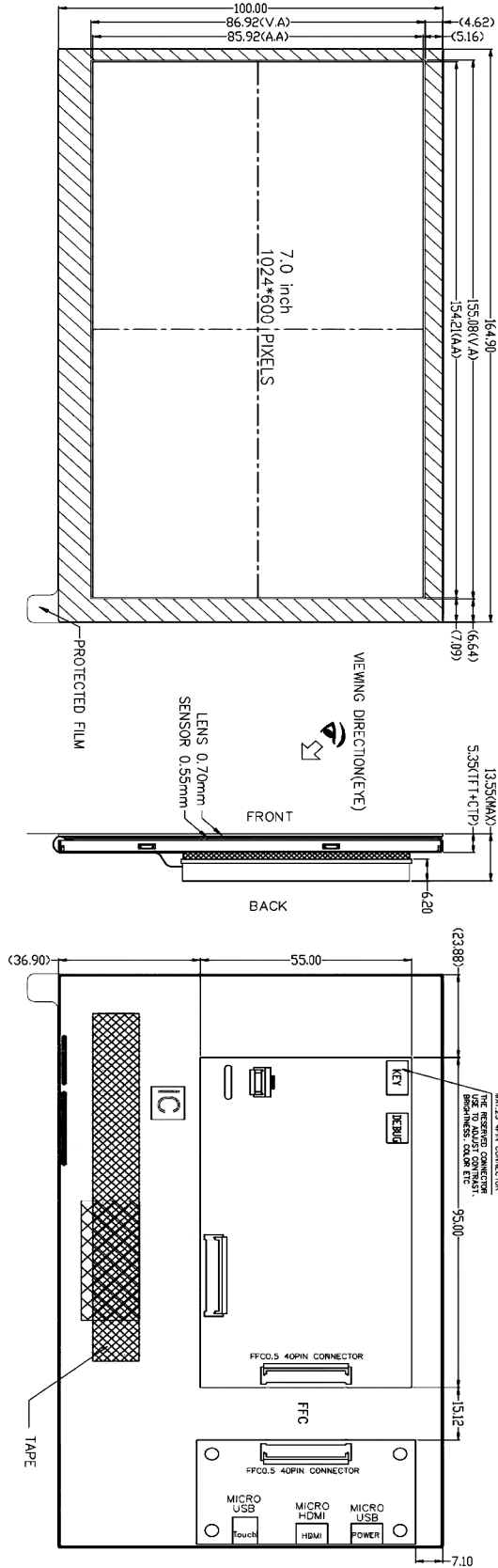
USB Power Interface

Pin	Signal Name	Pin	Signal Name
1	5V	4	
2	D-	5	GND
3	D+		

4. Physical Dimension

REV. SYMBOL	DESCRIPTION	NAME	DATE
0	FIRST ISSUE	Chen Yong Quan	DEC-04-2018

SKETCH DESIGN



ITEM	PARAMETERS	ITEM	PARAMETERS	ROHS/REACH COMPLIANT	YES
LCD SIZE	7.0 inch(DIAGONAL)	VIEWING DIRECTION(EYE)	12 O'CLOCK	UNMARKED TOLERANCE	±0.30
LCD TYPE	TN/NORMALLY WHITE	OPERATING TEMPERATURE	-20°C TO +70°C	SCALE	FIT UNIT mm
D RESOLUTION(H*V)	1024*600 PIXELS	STORAGE TEMPERATURE	-30°C TO +80°C	SHEET	1 OF 1 REV. 0
POLARIZER TYPE	TRANSMISSIVE	IC	/	TITLE	SKETCH DESIGN
POWER SUPPLY INPUT VOLTAGE	5V/2A	BACKLIGHT CONNECTOR	EDGE WHITE	PART NO.	/TFT070A103R
I/O LOGIC VOLTAGE	/	IC	/	MODULE NO.	/



DRAWN	CHEKED	APPROVED	NAME	DATE
			Chen Yong Quan	DEC-04-2018

MARK "*" ARE IMPORTANT DIMENSIONS, MARK "()" ARE REFERENCE DIMENSIONS, MARK "*" ARE SPECIAL CHARACTERISTICS RELATED TO SAFETY, MARK "x" ARE SPECIAL CHARACTERISTICS IRRELEVANT TO SAFETY, MARK "●" ARE IMPORTANT CHARACTERISTICS EXCEPT FOR THE SPECIAL CHARACTERISTICS.