

Shenzhen Leadtek Electronics Co.,Ltd

PRODUCT SPECIFICATION

TFT-SIMPLE UART LCM

Module No: LTK070WSHUT29-V0

☒ Preliminary Specification

☐ Approval Specification

Designed by	Checked by	Approved by
<i>jona</i>	<i>tom</i>	<i>lan</i>

Final Approval by Customer

Approved by	Comment

Distributed by:



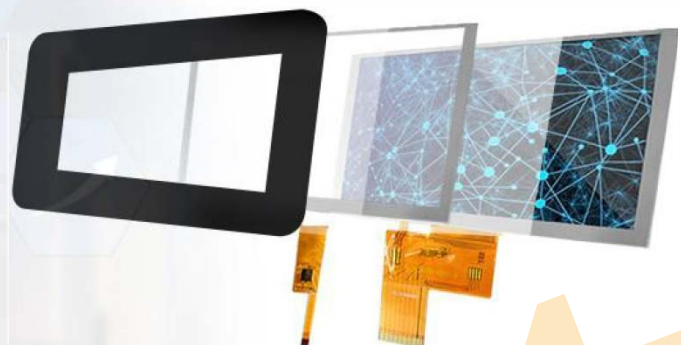
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※The specification of "TBD" should refer to the measured value of sample . If there is difference between the design specification and measured value, we naturally shall negotiate and agree to solution with customer.



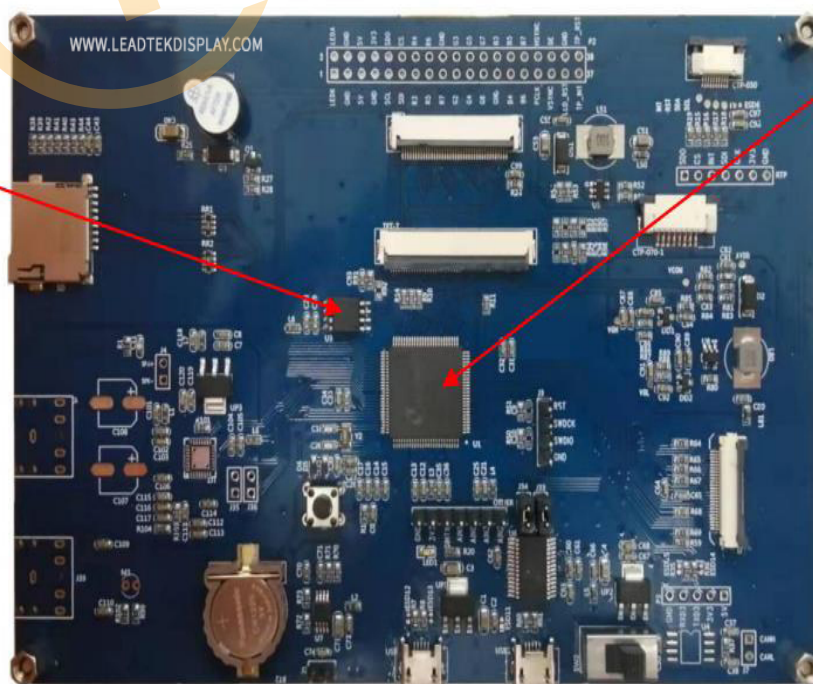
COMPREHENSIVE LCD TOUCH SCREEN DISPLAY SOLUTION

VIEW MORE+



TEXIM-EUROPE

UartTFT_Flash.bin
UserInfo.bin



MCU_Code.bin



version	Change instructions	date
V1.0	new	2022/05/05

● Display parameters

parameter	data	description
screen size	7.0 inch	inch
resolution ratio	1024 x 600 pixel	Support 90 / 180 / 270 degree rotation
Colors	16.7M	R(8bit)*G(8bit)*B(8bit)
Module outline dimension(with CTP)	176.4 (H) *111.0 (V) *5.28* (T)	1024 x600, in pixel mode
Backlight Types	340nits	Normal service life of 25,000, hours, support for 100 level brightness adjustment

● Peripheral parameters

parameter	data	description
memorizer		Built-in 128MB of storage
touch	Resistor screen touch, capacitor screen touch	The CTP Capacitive Touch of the Touch
DC voltage	3.3V~3.6V Battery Power Supply 5V_USB	Under 25°C conditions, the battery can be used for more than 3 years
buzzer		support
Mirco_SD		For updating programs, engineering files to internal storage
Interface (Power Supply + Communication)		5PIN-2.54 Horizontal band latch

• Software features

parameter	description
software platform	Independent research and development of serial port screen upper computer software, neutral interface, no LOGO
Software features	Support for multiple control operations
	Communication protocol: autonomous standard protocol
	Interface simulator and serial port simulator, PC end to complete all the development work
	Word library generator, support 1 / 2 / 4 / 8 site matrix data, can achieve vector font effect

• Electrical parameters

parameter	condition	minimum	representative value	maximal	unit
working voltage	Wide voltage input	6	12	36	V
	Fixed 5V voltage input (* optional)	4.5	5.0	5.5	
working current	VIN= + 5V, with the maximum backlight brightness	-	400	-	mA
	VIN= + 10V, with the maximum backlight brightness	-	9.6	V	
Standby current	VIN= + 5V, Backlit-off,standby pattern	-	200	-	mA
	VIN= + 12V, backlight brightness off,standby pattern	-	80	-	
Complete machine power consumption	VIN=5V	-	2.4	-	W
	VIN=12V	-	2.76	-	

Serial port parameters

parameter	condition	minimum	Representative value	maximal	unit
Serial port port rate	-	1200	115200	-	Bps
String mode	N81				
String level	3.3V TTL (* Optional 3.3V TTL / 5V TTL / RS232 / RS485)				

Working Environment and Reliability parameters

parameter	condition	minimum	Representative value	maximal	unit
working temperature	VIN=12V, with 60%humidity	-20	+25	+70	°C
Storage temperature	-	-30	+25	+80	°C
Working humidity	25°C	10%	60%	90%	RH
PCB protect	-				
ESD protect	Contact discharge of + / -8KV				
Other certification	RoHS (otherwise subject to customer requirements)				

Interface definition

order number	parameter	function
5PIN-2.54 Horizontal band latch (J1)		
1	RXD/B	UART receiving port / TTL signal
2	TXD/A	UART Send port / TTL Signal
3	RST	Reset signal (low level effective)
4	GND	Power input negative electrode
5	VIN	Power input positive pole

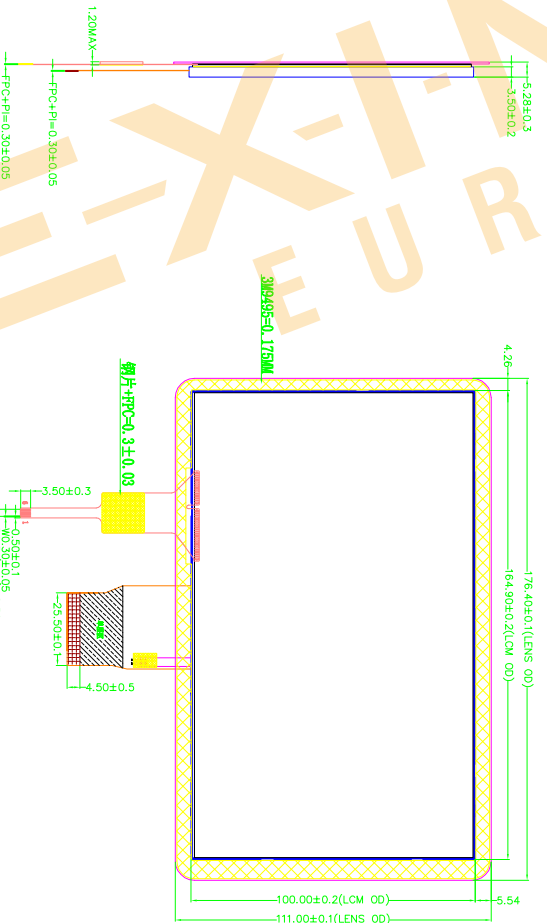
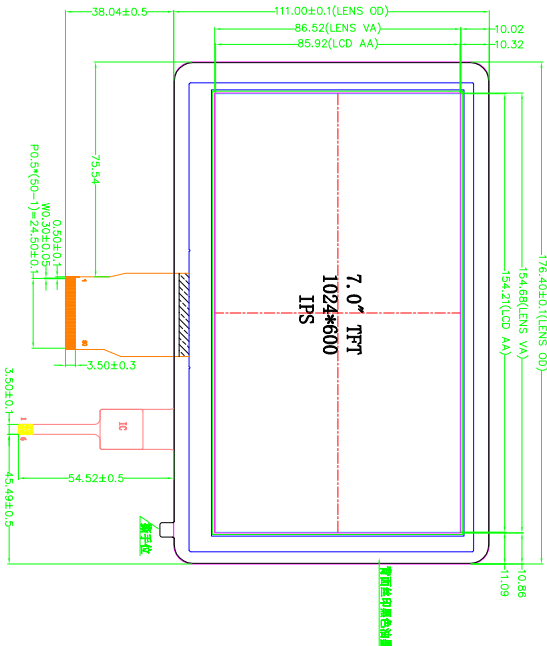
General Description

No	Item	Specification	Unit
1	Screen Size	7.0	inch
2	LCD Type	TFT	
3	LCD manufacturer	-	
4	Viewing Direction	ALL	Best Image
5	Display Mode	1024RGB (H) X600 (V)	
6	Resolution	Normally Black	Pixel
7	Active Area	154.2 (H) *85.9 (V)	mm
8	LCM Size	164.9 (H) *100.0 (V) *3.5 (T)	mm
9	Outline Dimension (with CTP)	176.4 (H) *111.0 (V) *5.28* (T)	mm
10	Driver IC	-	-
11	Interface	RGB	
12	Back Light	White Led*30	
13	With or Without Touch Panel	With	

Front View

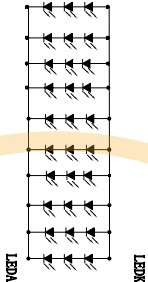
Side View

Back View



NOTES:

1. DISPLAY TYPE: 7.0", 1024*600 TFT LCD
2. DISPLAY MODE: transmissive Normally Black
3. VIEWING DIRECTION: ALL 0° CLOCK
4. DRIVER IC:HX8282
5. LCM (White 9 AVG 1/9) :
Brightness: 400 cd/m²
Uniformity:80% (MIN)
6. BACK LIGHT: 30 chip white LEDs If=200mA, Vf=8. 8V~10V
7. OPERATING TEMP: -20° C TO 60° C, STORAGE TEMP: -30° C TO 70° C
8. * Critical Parameter, () ref Parameter, [] cpk Parameter
Unspecified Tolerances: ±0.20mm
9. SUGGESTION: TP window size unilateral increase 0.3~0.5mm than LCM A.A
10. REQUIREMENTS ENVIRONMENTAL PROTECTION: RoHS



CTP interface

1	INT
2	SDA
3	SCL
4	RST
5	GND
6	VDD3.3

规格参数			
1	产品特性说明	GLASS+Gems	TP厚度 85%以上
2	COVER LENS钢化玻璃	0.7MM	LCM材料
3	COVER LENS贴膜	>9H	厚度 左上
4	无氧铜导电片	大于铜厚10%	IC封装: OX20
5	工作温度	-20°C ~70°C	背光模组
6	储存温度	-30°C ~80°C	封装方式: 下封装
所有TP材料符合ROHS无卤素要求			
接触电阻	GTB11	最大值	1220
供电电压	3.3V	IO电压	3.3V
SDA,SCL主端地址	75H	Y53	OP72
			GND

PTN NUMBER	NAME
1	LED+
2	LED+
3	LED+
4	LED-
5	LED-
6	GND
7	VCCM
8	MODE
9	DE
10	VS
11	HS
12	B7
13	B6
14	B5
15	B4
16	B3
17	B2
18	B1
19	B0
20	G7
21	G6
22	G5
23	G4
24	G3
25	G2
26	G1
27	G0
28	R7
29	R6
30	R5
31	R4
32	R3
33	R2
34	R1
35	R0
36	GND
37	DC/DC
38	GND
39	L/R
40	U/D
41	VGH
42	VGL
43	AVDD
44	RESSET
45	NC
46	VCCM
47	DT1TB
48	GND
49	NC
50	NC

LEADTEK COMPANY LIMITED



REV	DESCRIPTION	DATE	NAME	SCALE: 1/1	UNIT: mm	PAGE: 1/1	Approve	Check	Drawn
3									
2									
1									
0									
REV	DESCRIPTION	DATE	NAME	SCALE: 1/1	UNIT: mm	PAGE: 1/1	Approve	Check	Drawn

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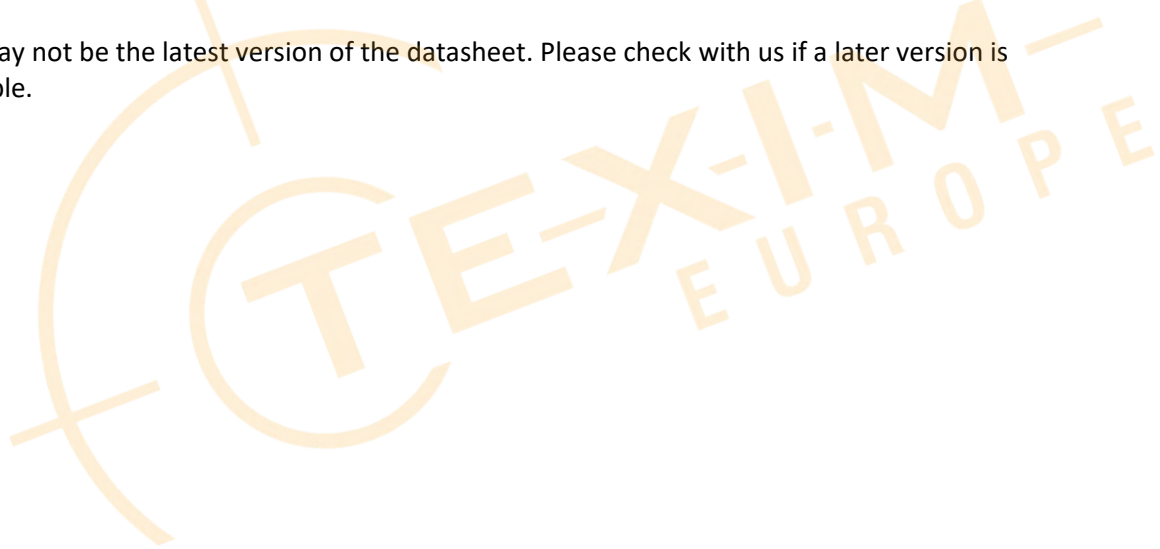
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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