MODEL NO. : <u>TY035VGC12CT</u>

VERSION :  ■ Preliminary Specification □ Final Product Specification  Customer :  Approved by Notes  Top Display:  Prepared by Checked by Approved by	issued dat	E: <u>20</u>	020-09-25	
Customer:  Approved by  Notes  Top Display:	VERSION	:1.	.1	
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### 上海冠显光电科技有限公司





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# 上海冠显光电科技有限公司 3.5 inch UART LCM

### Revision History

Issued Date	Description	Ver.
2019-07-25	First release	1.0
2020-09-25	Change PIN description and update drawing	1.1

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#### 3.5 inch UART LCM

#### General specifications

·	parameters	Description	
Items			
Display mode	TFT LCD	IPS all view angle	
Backlight Type	LED		
Dimension	BEZEL: 78.3(L)*65.3(W)	mm	
	PCB O/D:85(L)*80(W)		
Color	262K	RGB18bit	
Brightness	480 cd/m <sup>2</sup>		
Active Area	70.08mm×52.56mm	3.5inch	
Touch panel type	Capacitive touch panel		
Resolution	640RGB×480		
Other hardware	RTC		
Special features	Multi-media play, boot video	Up to 1080p with most video	
	support	formats	

#### I Environment and Electrical Characteristics

Items		parameters
Input voltage range	5.0VDC	
Power consumption	5V/300mA	(Maximum brightness)
Working temperature	-20℃~+60℃	
Storage temperature	-30℃~+70℃	
Working humidity	10%~90%RH	
Three anti-treatment	NO	

### I Communication interface parameter

Items		parameters	
Communication interface type		UART with 3.3V TTL level ,follow TGUS®	
		protocol	
	Minimum value	2400	
Serial baud rate	Typical value	9600	
	Maximum value	115200	
Data format		1 start bit -8 data bits - no parity bit -1 stop bit	
		(8N1)	
Micro USB		To update FW and UI	
User connection interface		16PIN-1.0MM FFC connector (top contact) or	
		6PIN-2.0 pin header	

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#### I Memory parameters

Parameters	Description
SPI FLASH	10MB for user to store picture, icon, font, video, audio

# Pin description 16PIN-1.0MM pitch FFC connector (top contact)

Pin	Pin Name	Туре	Description
Assignment			
1,2,15,16	+5V	POWER	5.0V DC
7,10	NC	/	/
8	DM		USB-DM ( it can be NC)
9	DP		USB-DP( it can be NC)
5,12	DOUT	Output	UART Transmit, Connect to RXD of USER MCU
6,11	DIN	Input	UART Receive ,Connect to TXD of USER MCU
3,4,13,14	GND	POWER	GND

#### 6PIN-2.0MM pin header

Pin Assignment	Pin Name	Туре	Description
1	+5V	POWER	5.0V DC
2	RXD	Input	UART Receive ,Connect to TXD of USER MCU
3	TXD	Output	UART Transmit, Connect to RXD of USER MCU
4	DM		USB-DM ( it can be NC)
5	DP		USB-DP( it can be NC)
6	GND	POWER	GND

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#### Drawing

