

**SPECIFICATION  
FOR  
TFT035A103R  
Customer Approval:**

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	SIGNATURE	DATE
PREPARED BY	高继府	<b>2020.3.13</b>
CHECKED BY	林锦	<b>2020.3.18</b>
APPROVED BY	王立伟	<b>2020.3.18</b>

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.



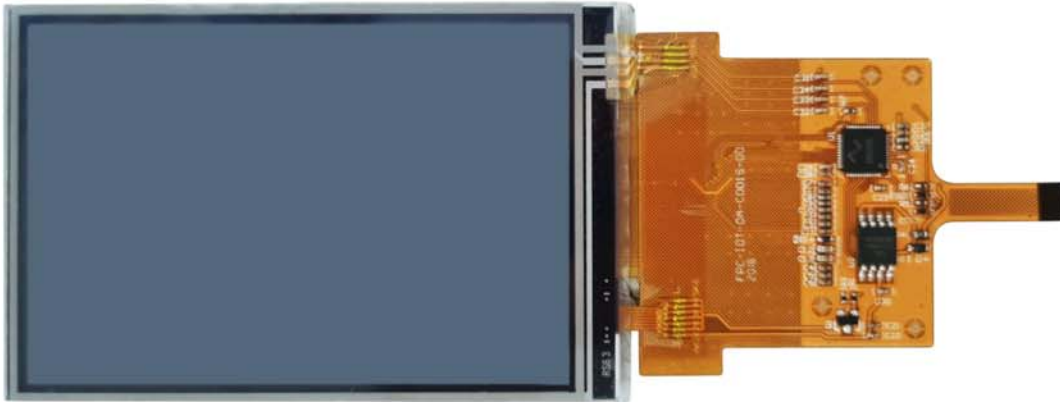
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## 1. Product Overview



## 2. Product Introduce

AVD-IOT-OA-C001S is a 3.5-inch smart screen, the user will display the UI and other interfaces stored in the FLASH of the screen in advance, just send serial instructions to show the desired interface effect. At the same time, the smart screen support resistive touch, can complete some simple user interaction. If the user wants to change the interface material, this product provides the universal USB interface, supports the user to upgrade online through the computer.

## 3. Parameter Description

Item	Parameters	Description
LCD size	3.5inch	
Colors	65K	16bit color 5R6G5B
Resolution	480*320	Pixel
Display area	73.44*48.96	mm
Back Light	LED	
Memory	8M(Bytes)	

## 4. Interface Definition

No	Symbol	I/O	Function
1	3.3V	P	Power supply voltage
2	3.3V	P	Power supply voltage

3	TXD	O	Serial Data Output
4	RXD	I	Serial Data Input
5	GND	P	GND (0V)
6	Busy	I	Update mode should be connect to GND
7	GND	P	GND (0V)
8	D+	I	USB signal D+
9	D-	O	USB signal D-
10	5V	P	USB Power voltage

## 5. Electronic Characteristics

Item	Test condition	Min	Typ	Max	Unit
Working voltage	25°C	3	3.3	3.6	V
Working current	VDD=3.3V 25°C	-	180	-	mA

## 6. Environment Characteristics

Item	Test Environmental	Min	Typ	Max	Unit
Operation temperature	VDD=5V, Humidity 60%	-20	25	70	°C
Storage temperature		-30	25	80	
Humidity	25 °C	10%	60%	90%	RH

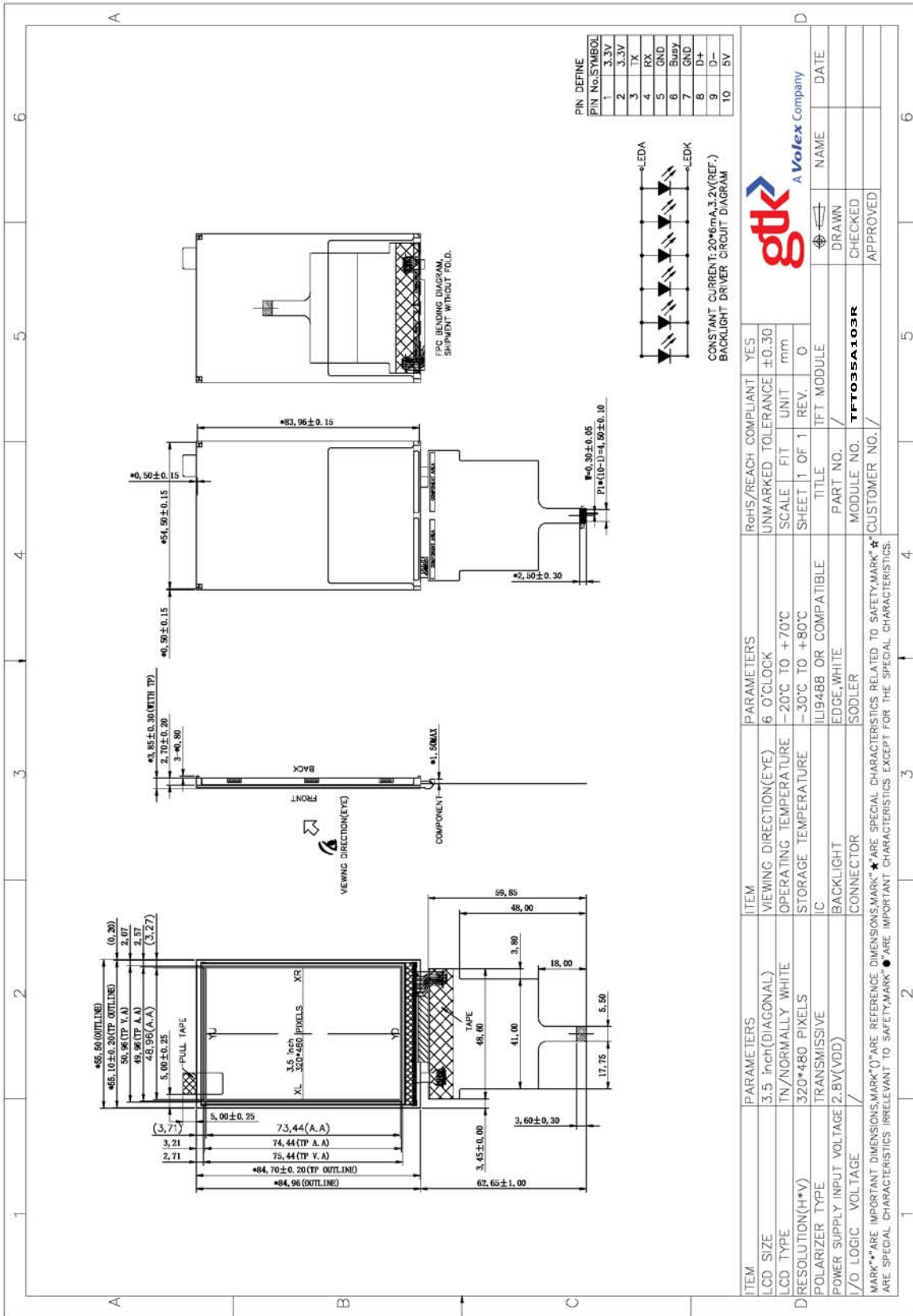
## 7. Instruction

This product support command format as followed:

Start	Instruction	Serial	Command	CRC	End
<b>0xAA</b> ( 1 Byte )	1 Byte	1 Byte	n Bytes	2 Bytes	<b>0xE4, 0x1B, 0x11, 0xEE</b> ( 4 Bytes )

This product only responds to the serial port data in accordance with the above instruction format. Therefore, users need to form a set of logically related script before using this product. For the method of script generation, please refer to 《 the instructions for the use of small size TFT serial screen》 .

# 8. Mechanical Structure



ITEM	PARAMETERS	ITEM	PARAMETERS	RHS/REACH COMPLIANT	YES
LCD SIZE	3.5 Inch(DIAGONAL)	VIEWING DIRECTION(EYE)	6 O'CLOCK	UNMARKED TOLERANCE	±0.30
LCD TYPE	TN/NORMALLY WHITE	OPERATING TEMPERATURE	-20°C TO +70°C	SCALE	FIT UNIT mm
RESOLUTION(H*V)	320*480 PIXELS	STORAGE TEMPERATURE	-30°C TO +80°C	SHEET 1 OF 1	REV. 0
POLARIZER TYPE	TRANSMISSIVE	IC	ILI9488 OR COMPATIBLE	TITLE	TFT MODULE
POWER SUPPLY INPUT VOLTAGE	2.8V(VDD)	BACKLIGHT	EDGE, WHITE	PART NO.	/
I/O LOGIC	VOLTAGE	CONNECTOR	SODLER	MODULE NO.	<b>TFT05A103R</b>
MARK**ARE IMPORTANT DIMENSIONS, MARK(*)ARE REFERENCE DIMENSIONS, MARK(*)*ARE SPECIAL CHARACTERISTICS RELATED TO SAFETY, MARK**ARE SPECIAL CHARACTERISTICS IRRELEVANT TO SAFETY, MARK**ARE IMPORTANT CHARACTERISTICS EXCEPT FOR THE SPECIAL CHARACTERISTICS.					

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