



AMU-240320-028R-F

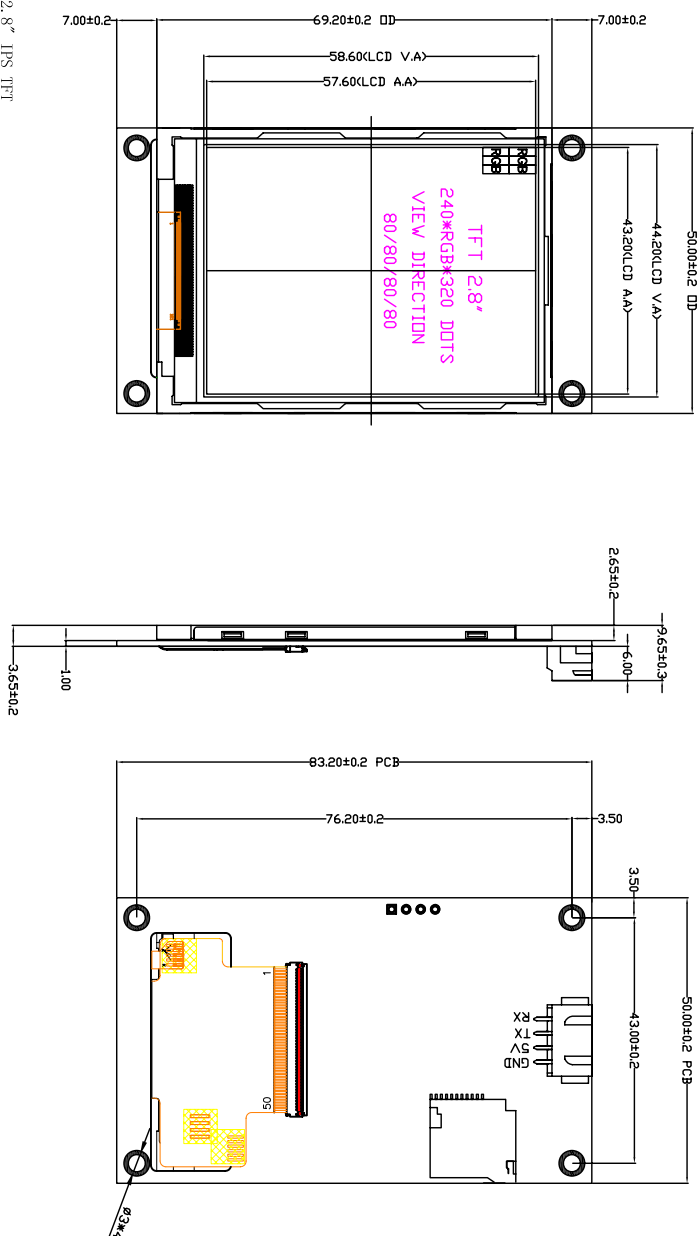
Version: B

2023.10.20

Specification for Approval

Customer: _____

Model Name: **AMU-240320-028R-F**



PIN	SYMBOL
1	RX
2	TX
3	+5V
4	GND

- NOTES:
1. DISPLAY TYPE: 2.8" IPS TFT
2. LCD DRIVE IC: ST7789V
3. POLARIZER MODE: TRANSMISSIVE/POSITIVE
4. OPERATING TEMP: -20°C $+70^{\circ}\text{C}$
5. STORAGE TEMP: -30°C $+80^{\circ}\text{C}$
6. UNMARKER TOLERANCE: ± 0.20
7. REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RoHS

HMI UART Characteristics

1. Operating Voltage:5V
2. RAM: 2048 BYTE
3. FLASH: 64MB

注 释	项次	内 容	版次	日 期	误差	比 例 1/1		单 位(mm)		时 间	名 称: LCM
						批 准	审 核				
	1	New Drawing	0	2021.8.24	X. ±0.30						
	1	PCB 修订	1	2023.10.19	.X ±0.20			SAM		页 数 1/1	绘 制 编 号:
	2				.XX±0.05						
	3										
于都上晴电子有限公司											



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• General Information

ITEM	STANDARD VALUES
LCD type	2.8" TFT
colors	65K (65536)
Module size	83.20(L)X50.00(W)X3.65(H)
TFT Active area	57.6mm (L) × 43.2mm (W)
Dot arrangement	240(RGB) × 320
Touch Type	-
Back Light	LED
B/L Life Time	>30,000 h
Luminous Intensity for LCM	250 Cd/m ²
Weight	TBD

• DC Characteristics

ITEM	Test condition	MIN	TYP	MAX	Unit
Supply Voltage		4.75	5	7	V
operating current	VCC=+5V,	—	85	—	mA
	SLEEP Mode	—	20	—	mA

• Operating temperature, Contents of Reliability Tests

ITEM	Test condition	MIN	TYP	MAX	Unit
temperature operating	5V	-20	25	70	°C
Temperature Storage	—	-30	25	85	°C
Humidity Operation	25°C	10%	60%	90%	RH

• Interface parameter

ITEM	Test condition	MIN	TYP	MAX	Unit
serial baud rate	standard	-	115200	-	bps
Serial output level (TXD)	output 1, Iout=1mA	3	3.2	—	V
	output 0, Iout=-1mA	—	0.1	0.2	V
serial output level (RXD)	output 1, Iout=1mA	2	3.3	5	V
	output 0, Iout=-1mA	-0.7	0	1.3	V
UART configuration	Data bits: 8, Parity: None, Stop bits: 1				
Connector	XH-4P-2.54				
SD interface	(FAT32 file format) maximum support 32G MicroTF				



- **Memory parameter**

Memory type	parameter	MIN	TYP	MAX	Unit
FLASH Memory	Image storage space	—	64	—	M-bit

Note: For more information about the programming, please refer to the Command Instruction.