



Specification for Approval

Customer: _____

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

注释		项次	内容	版次	日期	误差	比例 1/1		单位 (mm)	审核	绘制	时间	名称: LCM
		1	New Drawing	0	2021.8.24	X. ±0.30	批准					2023.10.19	型号: AMU-240320-028RP
		2	PCB 修订	1	2023.10.19	X. ±0.20					SAM	页数	绘制编号:
		3				.XX±0.05						1/1	

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

NOTES:

- DISPLAY TYPE: 2.8" IPS TFT
- LCD DRIVE IC: ST7789V
- POLARIZER MODE: TRANSMISSIVE/POSITIVE
- OPERATING TEMP: -20° C +70° C
- STORAGE TEMP: -30° C +80° C
- UNMARKER TOLERANCE: ±0.20
- REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RoHS

HMI UART Characteristics

- Operating Voltage: 5V
- RAM: 2048 BYTE
- FLASH: 64MB

Front view dimensions and specifications.

Side view dimensions and specifications.

PCB layout dimensions and specifications.

• **General Information**

ITEM	STANDARD VALUES
LCD type	2.8" TFT
colors	65K (65536)
Module size	83.20(L)X50.00(W)X5.20(H)
TFT Active area	57.6mm (L) ×43.2mm (W)
Dot arrangement	240(RGB)×320
Touch Type	CTP
Back Light	LED
B/L Life Time	>30,000 h
Luminous Intensity for LCM	230Cd/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.