



# Specification for Approval

**Customer:** \_\_\_\_\_

**Model Name:** AMU-240320-024L-A

NOTES:

1. DISPLAY TYPE: 2.4" IPS TFT
2. LCD DRIVE IC: ST7789V
3. POLARIZER MODE: TRANSMISSIVE/POSITIVE
4. OPERATING TEMP: -20° C~+70° C
5. STORAGE TEMP: -30° C~+80° C
6. DIMMER TOLERANCE: ±0.20
7. REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RoHS

HMI UART Characteristics

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

Pin	Symbol
1	RX
2	TX
3	+5V
4	GND

项次	内容	版次	日期	误差	比例	批准	单位 (mm)	审核	绘制	时间	名称	型号
1	New Drawing	0	2021.8.24	X. ±0.30	1/1					2021.8.24	LCM	AMU-240320-024L-A
2				X. ±0.20								
3				XX±0.05								

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• **General Information**

ITEM	STANDARD VALUES
LCD type	2.4" TFT
colors	65K (65536)
Module size	74.26(L)X42.72(W)X3.4(H)
TFT Active area	48.96mm (L) × 36.72mm (W)
Dot arrangement	240(RGB) × 320
Touch Type	-
Back Light	LED
B/L Life Time	>30,000 h
Luminous Intensity for LCM	400 Cd/m <sup>2</sup>
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, I <sub>out</sub> =1mA	3	3.2	—	V
	output 0, I <sub>out</sub> =-1mA	—	0.1	0.2	V
serial output level (RXD)	output 1, I <sub>out</sub> =1mA	2	3.3	5	V
	output 0, I <sub>out</sub> =-1mA	-0.7	0	1.3	V
UART configuration	Data bits: 8, Parity: None, Stop bits: 1				
Connector	XH-4P-2.54				



• **Memory parameter**

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