



Specification for Approval

Customer: _____

Model Name: AMU-240320-028RT-F

NOTES:

1. DISPLAY TYPE: 2.8" 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. UNMARKER TOLERANCE: ±0.20
7. REQUIREMENTS ON ENVIRONMENTAL PROTECTION: RAHS

HMI UART Characteristics

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

PN	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
1	New Drawing	0	2022.6.14	X. ±0.30	1/1				SAM	2023.10.19	型号: AMU-240320-028RT
2	PCB 修订	1	2023.10.19	X. ±0.20						1/1	页 数
3				.XX±0.05							绘制编号:

于都上晴电子有限公司

• **General Information**

ITEM	STANDARD VALUES
LCD type	2.8" TFT
colors	65K (65536)
Module size	83.20(L)X50.00(W)X4.9(H)
TFT Active area	57.6mm (L) ×43.2mm (W)
Dot arrangement	240(RGB)×320
Touch Type	RTP
Back Light	LED
B/L Life Time	>30,000 h
Luminous Intensity for LCM	180 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.