



Specification for Approval

Customer: _____

Model Name: **AMU-320240-035HT-F**

NOTES:

1. DISPLAY TYPE: 3.5" IPS TFT
2. LCD DRIVE IC: SSD2119
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: RoHS

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

Technical drawing showing front, side, and PCB views of the AMU-320240-035HT-F LCD module. Dimensions include 91.00±0.2 (total width), 76.90±0.2 (LCD width), 64.00±0.2 (PCB width), and 57.00±0.2 (PCB width). Labels include '3.5" TFT', '320x3(RGB)x240 DOTS', 'VIEWING DIRECTION', 'X1', 'X2', 'Y1', 'Y2', '70.08 LCD AA', '7.05', '70.08 LCD AA', '5.55±0.3', '1.00 PCB', '6.00', '64.00±0.2 (PCB)', '57.00±0.2', '3.50', '3.50', '91.00±0.2 (PCB)', '84.20±0.2', 'RX TX 5V GND', and 'Ø3x4'.

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

项次	内容	版次	日期	误差	比例	单位	审核	绘制	时间	名称
1	New Drawing	0	2021.8.24	X. ±0.30	1/1	(mm)			2023.10.20	型号: AMU-320320-035HT
2	PCB 变更	1	2023.10.20	X. ±0.20				SAM	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	3.5" TFT
colors	65K (65536)
Module size	91(L)X64 (W)X5.55(H)
TFT Active area	70.08mm (L) ×52.56mm (W)
Dot arrangement	320(RGB)×240
Touch Type	RTP
Back Light	LED
B/L Life Time	>30,000 h
Luminous Intensity for LCM	300 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 2G 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.