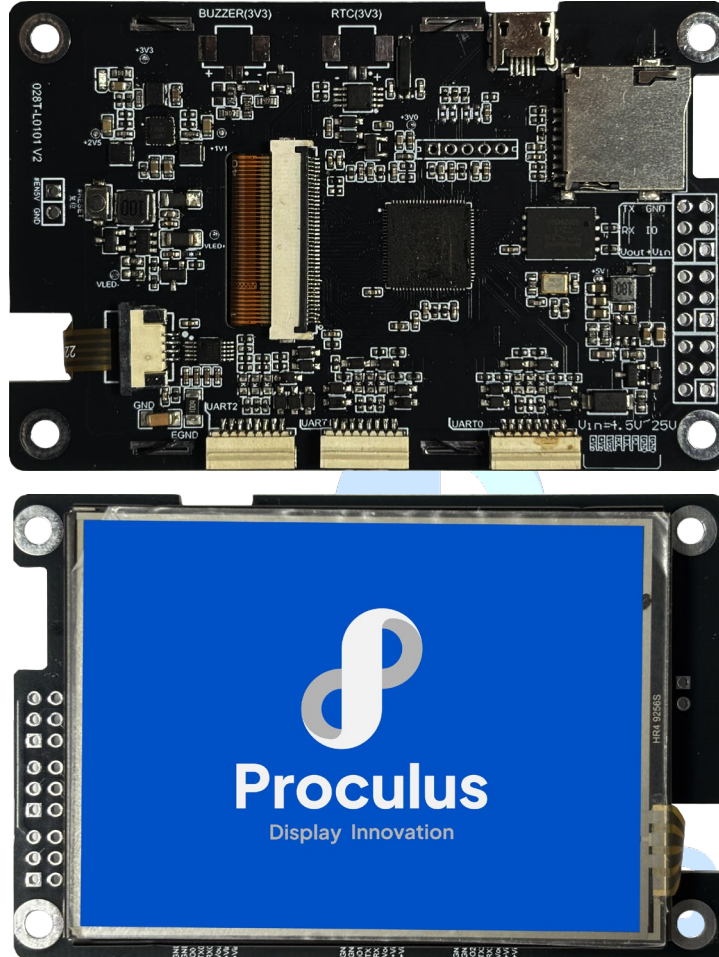


# P24320\_028X\_L0101

2.8 Inches, 240xRGBx320, 65K colors

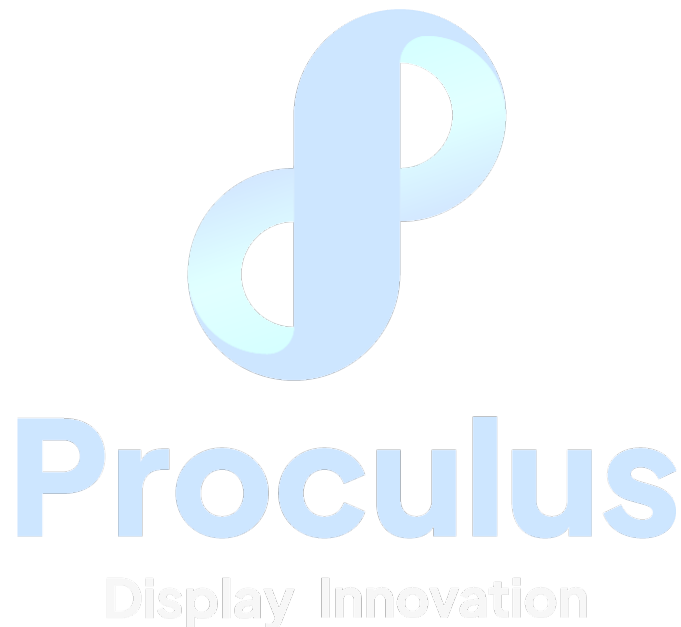


## Modification Record

Date	Content
2024/11/26	First release
2025/07/17	Update product images

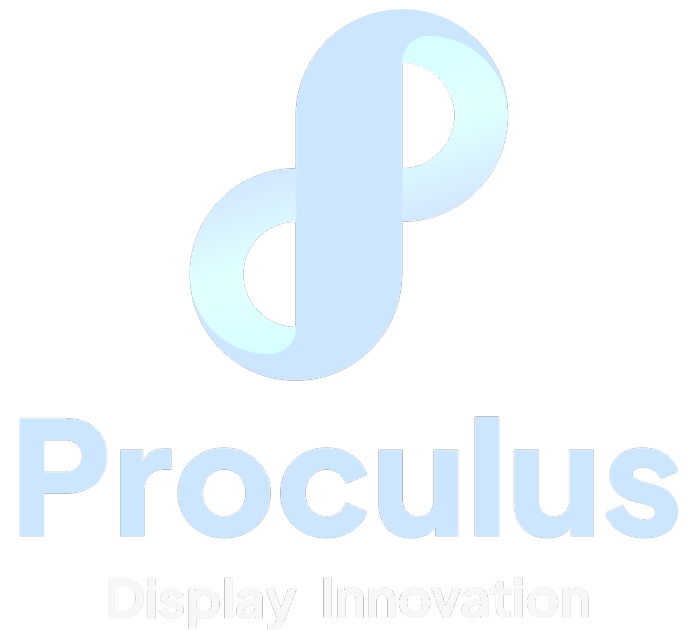
## Features

- Support wide range of power supply: Default is 4.5~25V
- Support TTL/CMOS, the max baud rate is 3,125 Mbps;
- Support hardware JPG decoding which makes storage more efficient and display quicker;
- Support offline batch download through USB Flash Drive, which improves download efficiency and reduce requirements for operators;
- Support backlight brightness adjustment and automatic standby screen saver function;
- Support multi-language font library, picture, TWO-DIMENSIONAL code display;
- Support number and English input, customizable keyboard interface;
- Support 90 degrees, 180 degrees, 270 degrees screen rotation, adjustable visual angle;
- Easy-to-use UnicView GUIs Development, no coding skills required;
- Instant operation when power on without system load time;
- Excellent electromagnetic compatibility characteristics.

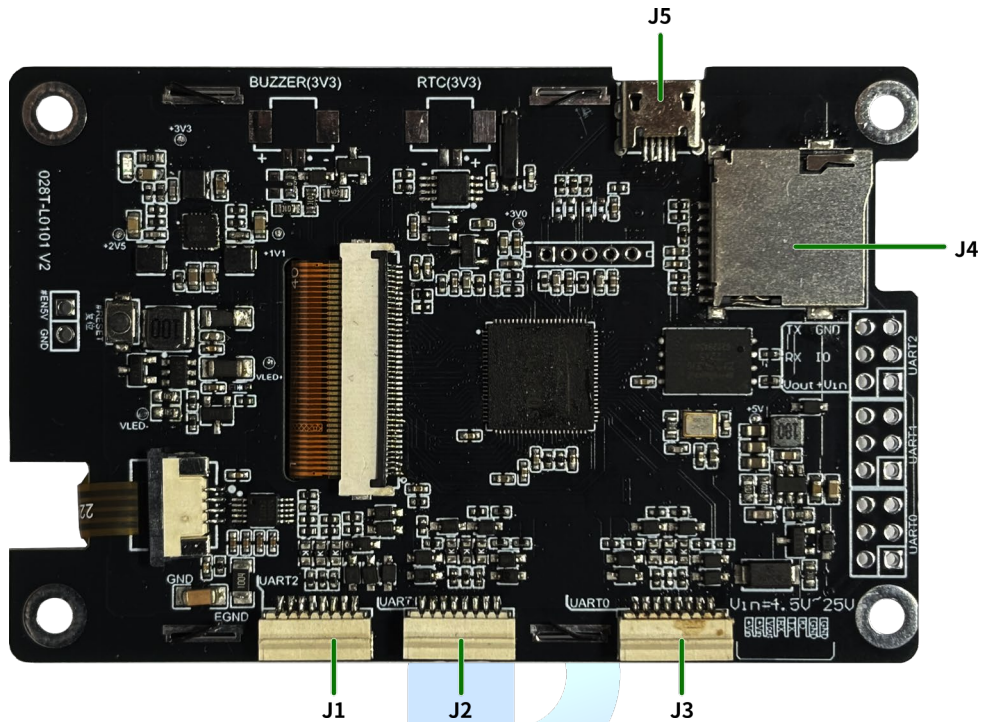


Display					
Color	65K (65536) colors, 16 bit color 5R6G5B				
Resolution	240*320, 90° rotated display (320*240)				
Brilliance	1400 cd/m <sup>2</sup>				
Active area (WxH)	43.2mm(width)×57.6mm(height)				
Backlight Type	LED				
Voltage & Current					
Item	Min.	Typ.	Max.	Unit	Notes
Power Voltage	4.5	12	25	V	Tolerates polarity reversal.
Output voltage for peripherals (Vout or 5V0)	-	5	-	V	-
Output Current for Peripherals (Iout)	-	-	25	mA	-
Output voltage (TX0, TX1, TX2)	-	3.3V	-	mA	High level
	-	0	0	mA	Low level
Input voltage (RX0, RX1, RX2)	-	3.3V	-	V	High level
	-	0	-	V	Low level
Interface					
Item	Condition	Min.	Typ.	Max.	Unit
Baud Rate	Standard	1200	—	312500	bps
Interface	TTL/CMOS				
Peripherals					
Touchscreen Panel	Resistive				
Buzzer	YES				
RTC	YES				
Audio	NO				
Project Recording	SD Card and Serial Communication.				
Memory	128MB (total). Expandable via SD Card (FAT32) up to 32 GB.				
Other Info					
Working Temperature	-20°C~70°C				
Storage Temperature	-30°C~85°C				
Fixation	Drilling for M3 screw				
Carcass	Castless				

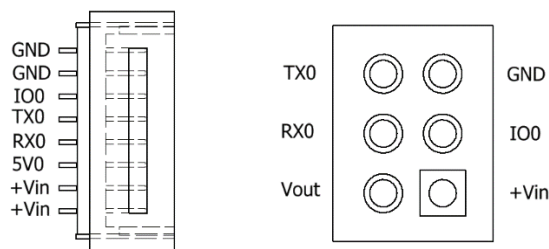
Model number	
P24320_028T_L0101	Resistive Touch, High brightness



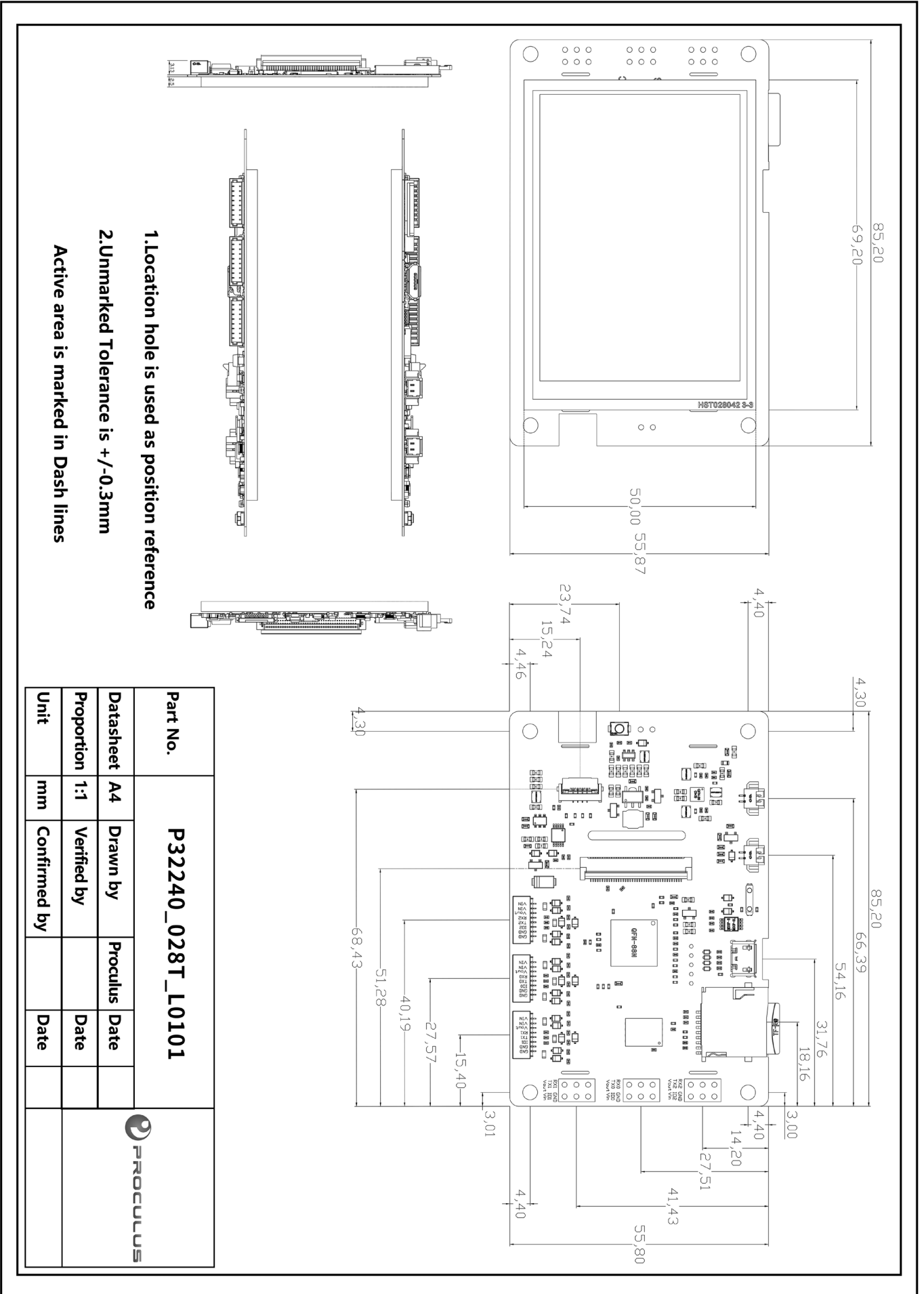
## Interface Description




Item	Description
1	UART2 Connector
2	UART1 Connector
3	UART0 Connector
4	SD Card Connector
5	Reserved. Not to be used



Pin	Description	Notes
<b>+VIN</b>	Supply Voltage	-
<b>5V0</b>	Output Voltage for Perirerics	For use on accessories only
<b>RX0</b>	UART0 Reception	-
<b>TX0</b>	UART0 Transmission	-
<b>IO0</b>	Reserved	Do Not Connect



1. Location hole is used as position reference  
 2. Unmarked Tolerance is +/-0.3mm  
 Active area is marked in Dash lines

Part No.	P32240_028T_L0101			
Datasheet	A4	Drawn by	Proculus	
Proportion	1:1	Verified by		Date
Unit	mm	Confirmed by		Date

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