

# SMART DISPLAY MODULE SPECIFICATION

1.9 Inch Smart Display with TOUCH	
<b>Model:</b>	DX17320019T-C-A
<b>Version:</b>	V1.1
<b>Date:</b>	2024-08-30

## Customer Confirmation 客户确认

Approved by	Notes

## REVISION HISTORY

Revision	Date	Contents of Revision Change	Remark
V1.0	20240218	Preliminary release	
V1.1	20240830	Upgrade mechanical drawing	

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# 1. Introduction

## 1.1 Features

### Brief Info:

- 1) Key control: one is to reset the button, the other is to control the button to control the switch of the special interface.
- 2) Backup IO: download ports and multiple IO are led out on both sides of the periphery for use
- 3) USB interface: for power supply only
- 4) Power: DC 5V, 100mA

### System

- 1) OS: GUI
- 2) CPU: ARM Cortex-M0 64Mhz
- 3) RAM: 8KB
- 4) Flash: 8MB
- 5) Interface: UART

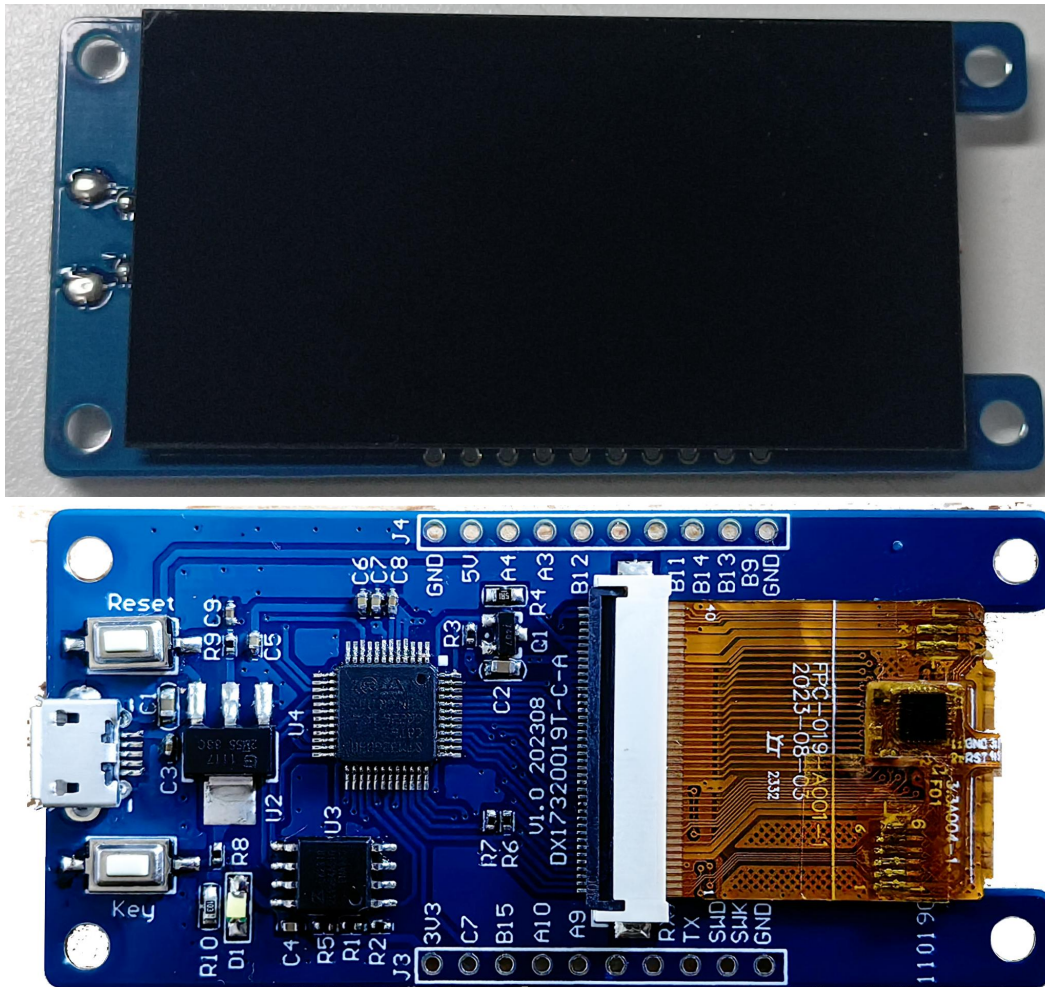
### Display

- 1) Size: 1.9 Inch
- 2) Resolution: 170\*320
- 3) Mode: IPS
- 4) Brightness: 450 cd/m<sup>2</sup>
- 5) Touch: have

### Other

- 1) Operation Temperature: -20~70°C
- 2) Storage Temperature: -30~80°C

## 1.2 Appearance picture



## 2. Product information

### 2.1 Interface Description

Pin NO.	Symbol	Description	Voltage Range	Remarks
1	3.3V	Power 3.3V	3.3V	
2	C7	GPIO7, Reserve IO	0-3.3V	
3	B15	GPIO15, Reserve IO	0-3.3V	
4	A10	GPIO10, Reserve IO	0-3.3V	
5	A9	GPIO9, Reserve IO	0-3.3V	
6	RX	UART2 Receive	0-3.3V	Download UI by default
7	TX	UART2 Transmit	0-3.3V	
8	SWD	Burning recording port	0-3.3V	Download app by default
9	SWK	Burning recording port	0-3.3V	
10	GND	Grounds	0V	

Pin NO.	Symbol	Description	Voltage Range	Remarks
1	GND	Grounds	0V	
2	5V	Power 5V	5V	
3	A4	GPIO4, Reserve IO	0-3.3V	
4	A3	GPIO3, Reserve IO	0-3.3V	
5	B12	GPIO12, Reserve IO	0-3.3V	
6	B11	GPIO11, Reserve IO	0-3.3V	
7	B14	GPIO14, Reserve IO	0-3.3V	
8	B13	GPIO13, Reserve IO	0-3.3V	
9	B9	GPIO9, Reserve IO	0-3.3V	
10	GND	Grounds	0V	

The connector specifications is two 10PIN 2.54mm pitch

The following picture shows the pins with 2 10pin spacing between 2.54mm



The following picture shows the reset button on the left and the control button on the right.



The following picture is a schematic diagram of USB. USB is used for power supply only.



## 2.2 Display Information

Item	Parameter	Description
Color	65K colors	R5G6B5 16bits
AA	22.69(W)*42.72(H)	1.9 inch
Resolution	170*320	Rectangle
Backlight	LED	30000Hour Min
Brightness	450 cd/m <sup>2</sup>	

## 2.3 Voltage & Current

Item	Conditions	Min	Typ	Max	Unit
Power Voltage	DC	4.0	5.0	5.5	V
Operation Current	VCC= +5V, Maximum backlight current	50	100	150	mA
	VCC= +5V, backlight off	-	50	-	mA
Recommended power supply: 5V 1A DC					

## 2.4 Reliability Test

Item	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 5V voltage	-20	25	70	C
Storage Temperature	---	-30	25	85	C
Working Humidity	25°C	10%	60%	90%	RH
ESD	---	Contact: ±4KV Air: ±8KV			KV



## 3. MECHANICAL DRAWING

