SMART DISPLAY MODULE SPECIFICATION

2.1 Inch Smart Knob Display with Wi-Fi /BLE	
Model:	UEDX40400016-MD59F
Version:	V2.0
Date:	2024-02-18

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Customer Confirmation 客户确认

Approved by	Notes

REVISION HISTORY

Revision 版本号	Date 日期	Contents of Revision Change 修改内容	Remark 备注
V1.0	20221008	Preliminary release	
V2.0	20240218	Change to English version	

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TABLE of CONTENTS

1. INTRODUCTION 4
1.1 Features 4
1.2 Appearance picture 5
2. PRODUCT INFORMATION 6
2.1 Interface Description 6
2.2 Display Information 6
2.3 Voltage & Current 6
2.4 Reliability Test 7
3. MECHANICAL DRAWING 8
4. RELATED DOWNLOADS 9

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1. Introduction

1.1 Features

Brief Info:

1) Outline Dimension: ϕ59 Round
2) Interaction Method: Rotate and Press
3) Shell Color: Black/White/Silver/Customized
4) Power: DC 5V, 150mA

System

1) OS: RTOS
2) CPU: ARM Cortex-M3 96Mhz
3) RAM: 2MB
4) Flash: 16MB
5) Interface: UART
6) Support 2.4GHz Wi-Fi、BLE 5、BLE Mesh

Display

1) Size: 1.6 Inch
2) Resolution: 400*400
3) Mode: IPS
4) Brightness: 300 cd/m^2
5) Touch: without

Other

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

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1.2 Appearance picture

2. Product information

2.1 Interface Description

Pin NO.	Symbol	Description	Voltage Range	Remarks
1	TX1	UART1 Transmit	0-3.3V	
2	RX1	UART1 Receive	0-3.3V	
3	TX2	UART2 Transmit	0-3.3V	Download UI by default
4	RX2	UART2 Receive	0-3.3V	
5	GND	Grounds	0V	
6	VCC	Power 5V	5V	

The connector specifications is 10PIN 0.5mm pitch

2.2 Display Information

Item	Parameter	Description
Color	65K colors	R5G6B5 16bits
AA	39.84(W)*39.84(H)	1.6 inch
Resolution	400*400	Round
Backlight	LED	30000Hour Min
Brightness	300 cd/m^2	

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	-	320	-	mA
	VCC= +5V,backlight off	-	80	-	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

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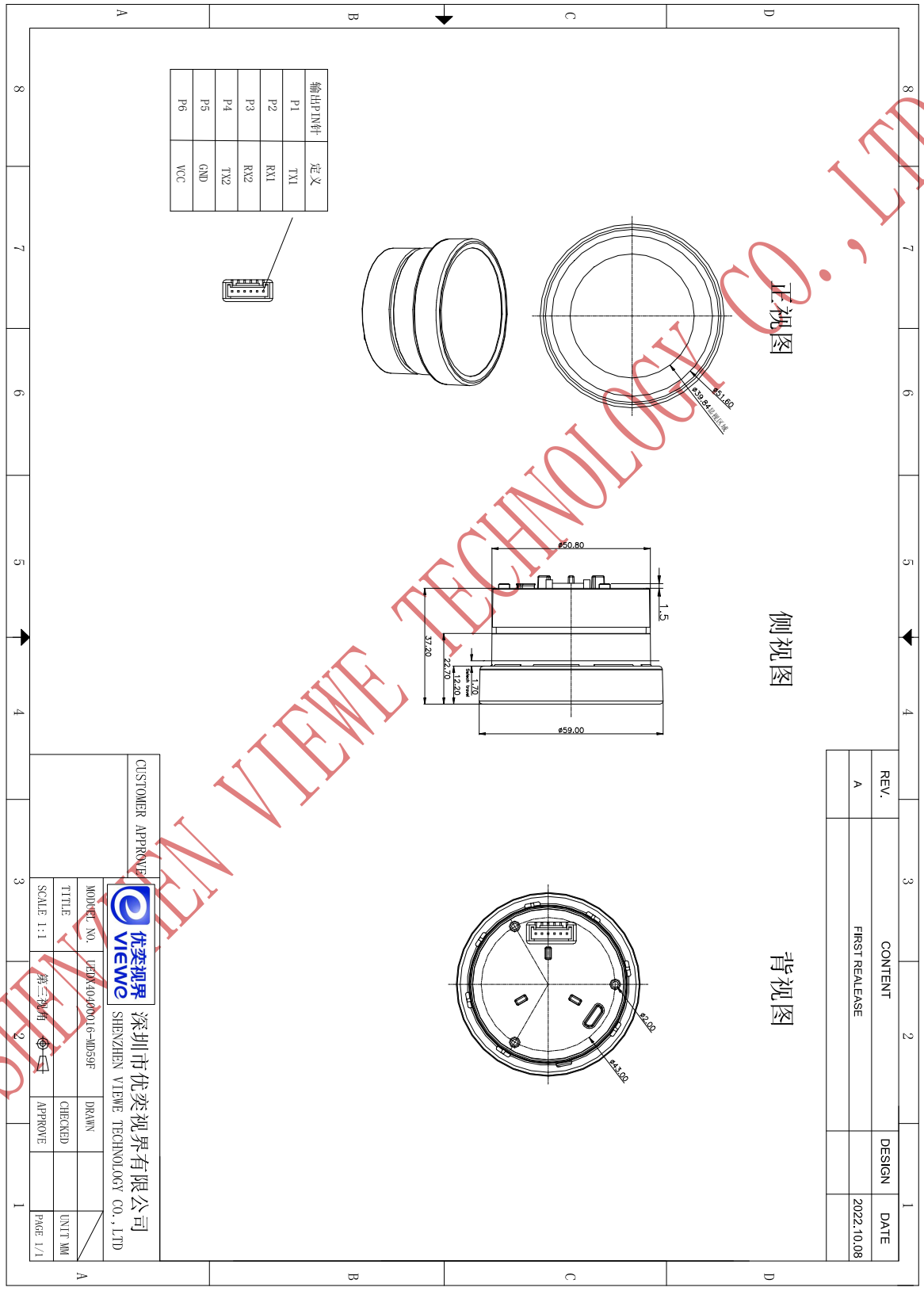
3. MECHANICAL DRAWING



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4. Related downloads

https://pan.baidu.com/s/1hY-zq_83QglcJZNzDgx4Hw?pwd=D59F

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