

INDUSTRIAL STRENGTH... Start Your Application From YOURITECH

Integration support

Obsolescence Management

PCAP

Embedded Systems

Human Machine Interface

Touch Solutions

Software

Quality Management

Open Frame Monitors

LCD Controller

Research & Development

Firmware

EMC tests

on-site service

Optical Bonding

In-house Manufacturing

Cover glass

System solutions

OEM Solutions

Custom Display

Production Custom designs Installation

Mechanical design



DISPLAY MODULE SPECIFICATION

Customer: _____

Module No.: ET103F1CSFS02-G

Date: 2025-09-13

Version: 1.0

For Customer's Acceptance:

Approved by	Comment

Approved by	Checked by	Prepared by



Record of Revision

Rev.	Date	Description	Editor
1.0	2025-09-13	First release	Lanchang.Zhang



Table of Contents

Record of Revision	2
1 General Specifications	5
2 Pin Description	6
3 Mechanical Specification	9
4 Absolute Maximum Ratings	10
5 Block Diagram	11
6 Optical Characteristics	12



1. General Specifications

1.1 Product Overview:

ET103F1CSFS02-G is a monocular silicon-based OLED display driver product developed by YOURITECH. This product uses the SH1.0 connector as the CVBS input, power input, and button control interface, and outputs MIPI signals. It supports adjusting display parameters through the OSD menu. Can be applied to demo display of YOURITECH silicon-based products, product feature evaluation, and secondary development of products based on this driver board. This solution is particularly suitable for markets with small size requirements, such as optical aiming, night vision imaging, industrial inspection, security monitoring, outdoor exploration, and other fields.



1.2 Features:

No.	Item	Specification	Unit
1	Panel Size	1.03	Inch
2	Number of Pixels	2560× (RGB) ×2560	Pixels
3	Active Area	18.43(H) × 18.43 (V)	mm
4	Pixel Size	7.2(H)× 5.62(V)	um
5	Outline Dimension(OLED)	22.77(W) × 21.09(H)	mm
6	Outline Dimension(PCB)	30.00(W) × 30.00(H)	mm
7	Number of Colors	16.7M	--
8	Display Mode	Normally Black	--
9	View Direction	All	--
10	Display Format	RGB π type	--
11	Surface Treatment	/	--
12	Contrast Ratio	500000(Typ.)	--
13	Luminance (cd/m^2)	1800(Typ.)	cd/m2
14	Video Input Interface	/	
15	Touch panel	/	
16	Backlight	/	
17	Operation Temperature	-20 to +70	℃
18	Storage Temperature	-40 to +80	℃
19	Weight	(TBD)	g



2. Pin Descriptions

2.1 CVBS Pin assignment

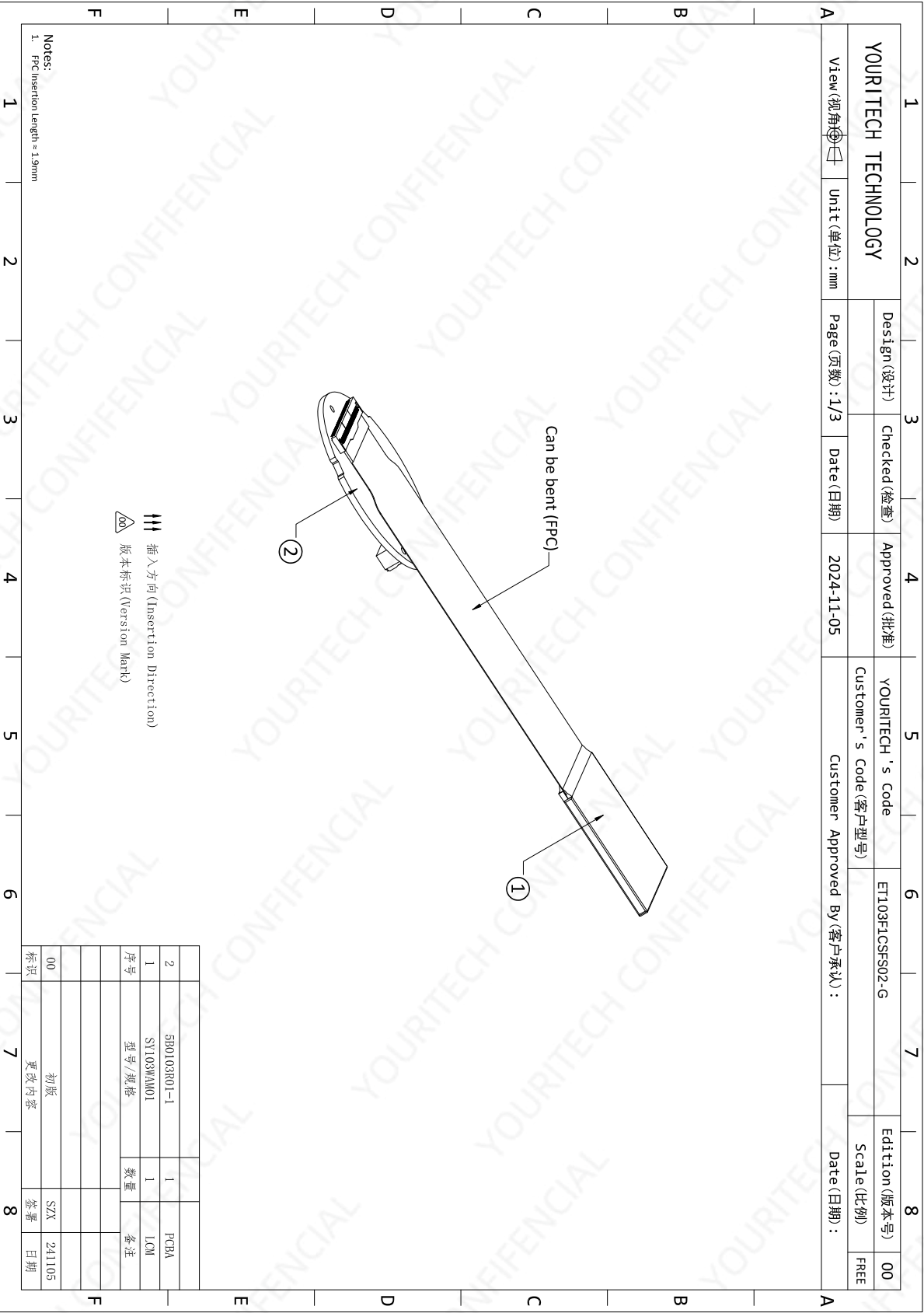
CVBS type:CONN-SMD_8P-P1.00_XUNPU_WAFER-SH1.0-8PLB or compatible.

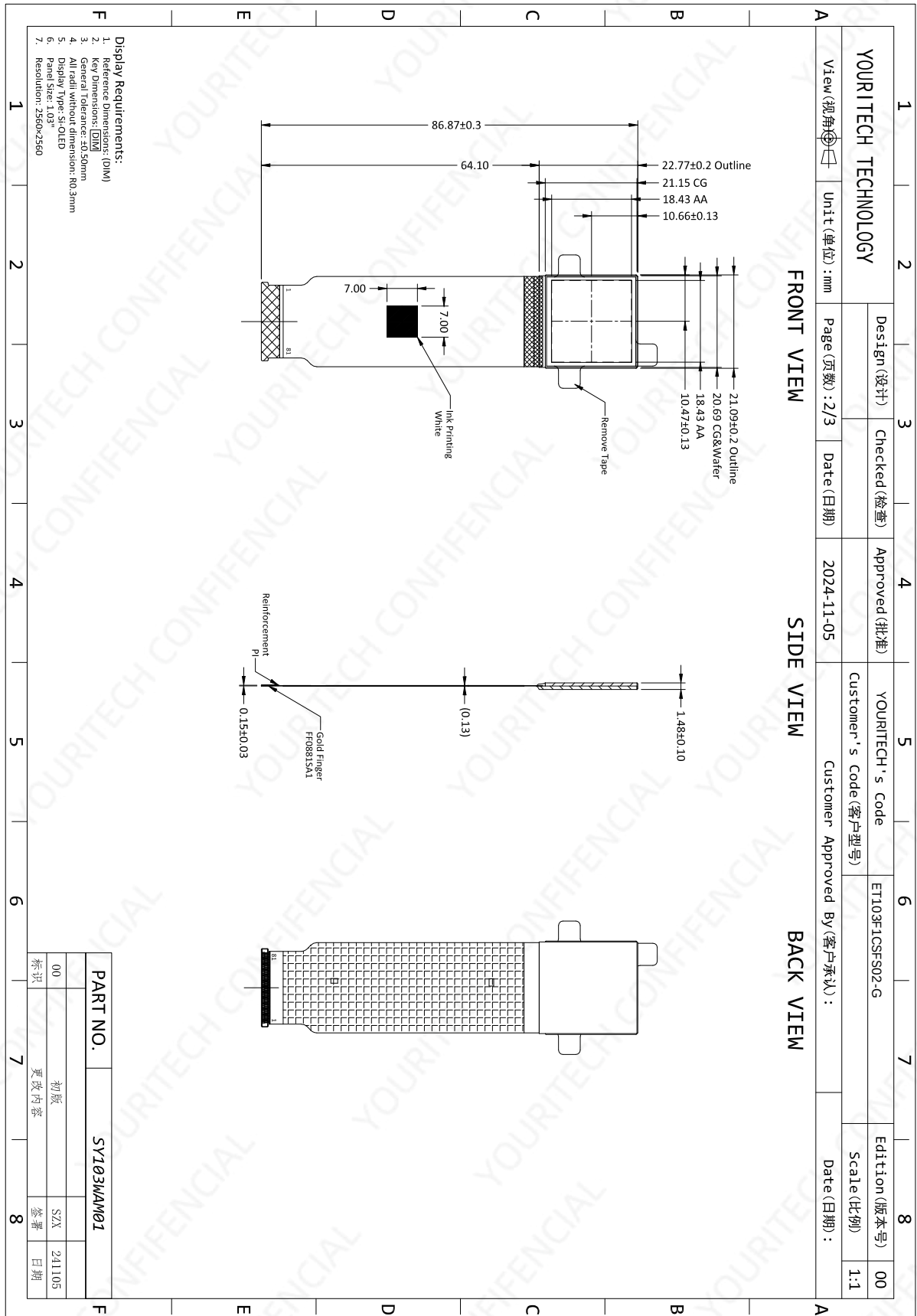
PIN	Symbol	I/O	Function	Note
1	CVBS	I	CVBS signal Input	
2	AGND	P	CVBS signal ground	
3	KEY3	I	Button 3	
4	GND	P	Power Ground	
5	KEY2	I	Button 2	
6	VCC	I	Power(+5V)	
7	GND	P	Power Ground	
8	KEY1	I	Button 1	

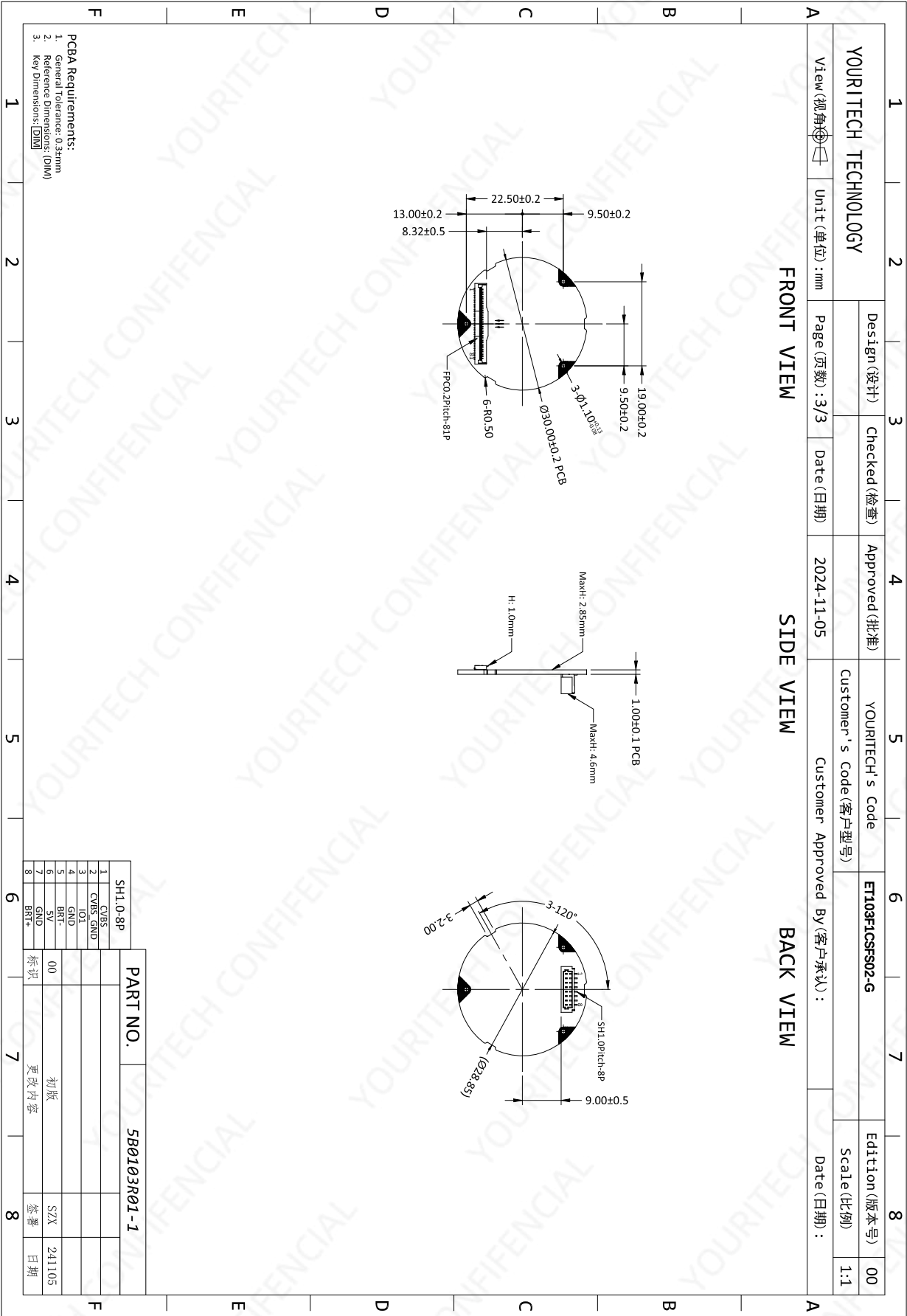
I---Input, O---Output, P--- Power/Ground



3. Mechanical Specification







4. Absolute Maximum Ratings

Electrical Absolute Rating

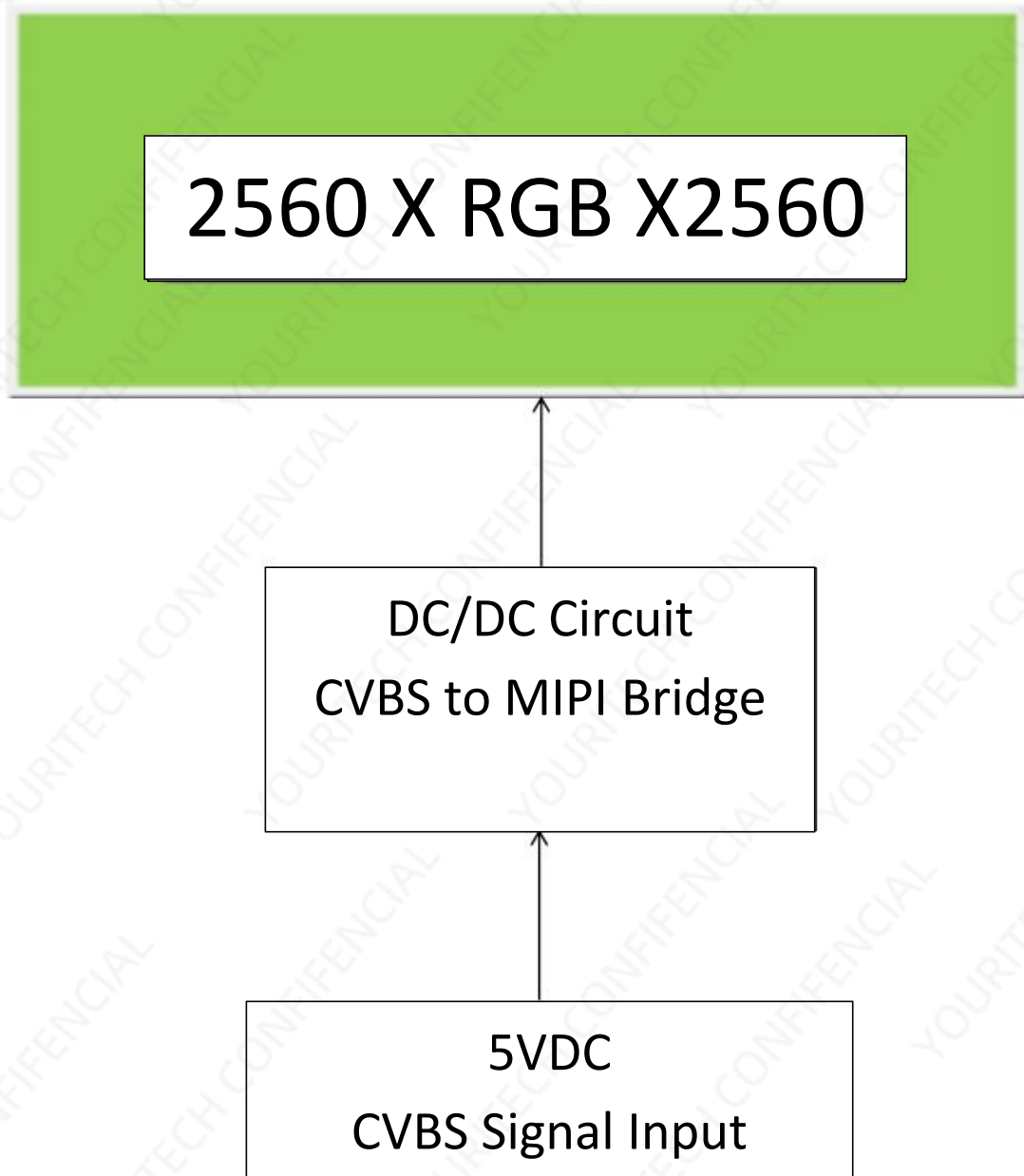
Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Power supply voltage	5V	4.5	5	5.5	V	
Input current	-	0.20	0.18	0.17	A	
Input Power	-	0.90	0.90	0.94	W	

Environment Absolute Rating

Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Operating Temperature	Top	-20.0	-	70.0	°C	
Storage Temperature	Tst	-40.0	-	80.0	°C	



5. Block Diagram



6. Optical Characteristics

Item	Description	Min.	Typ.	Max.	Unit
Brightness	Tpanel=30℃	-	1800	-	cd/m2
Brightness	Tpanel=10℃ ~70℃	1350	1800	2250	cd/m2
CR	white to Black Contrast Ratio	200000	500000	-	
Uniformity	End to end large-area uniformity -	85	-	-	%
CIE Red	CIE-x	0.635	0.655	0.675	
	CIE-y	0.315	0.335	0.355	
CIE Green	CIE-x	0.217	0.252	0.287	
	CIE-y	0.656	0.686	0.716	
CIE Blue	CIE-x	0.122	0.142	0.162	
	CIE-y	0.040	0.060	0.080	
CIE White	CIE-x	0.298	0.313	0.328	
	CIE-y	0.314	0.329	0.344	
Color Gamut	DCI-P3	85%	90%		
View angle (White)	Luminance decay to 50%	35°			
Frame rate		60		90	HZ
Power consumption	1800nits, 100%duty_1920× 1920input_1.33sca ling up_No DSC_72Hz		1600	2000	mW

