



Parameter	Specification	Unit	Pin No.	Symbol	I/O	Description
LCD size	2.83 (Diagonal)	inch	1	GND	P	Ground.
Resolution Ratio	480(H)×640(V)	pixels	2	D0N	I	MIPI DSI Negative differential data signal.
Pixel Pitch	0.09(H)×0.09(V)	mm	3	D0P	I	MIPI DSI Positive differential data signal.
Active Area	43.2(H)×57.6(V)	mm	4	GND	P	Ground.
Module Size	46.2(W)×65.181(H)×2.3(D)	mm	5	D1N	I	MIPI DSI Negative differential data signal.
Display Mode	Normally Black , Transmissive		6	D1P	I	MIPI DSI Positive differential data signal.
Interface	MIPI		7	GND	P	Ground.
Pixel arrangement	RGB-Vertical Stripe		8	CLKN	I	MIPI DSI Negative clock signal.
View Direction	ALL	O'clock	9	CLKP	I	MIPI DSI Positive clock signal.
Power Supply	2.8	V	10	GND	P	Ground.
Power Consumption	LCD=0.084W(VCI=2.8V) Backlight=0.504W(If=40mA)	W	11	RESET	I	Reset signal input.
Weight	12.5(Typ.)	g	12	TE	I	Tearing Effect.
Luminance	450(Typ.)	cd/m ²	13	NC	-	No connection.
Driver IC	ST7701SN		14	IOVCC	P	Logic power for digital circuit.
Operating Temperature	-20~+70	°C	15	VDD	P	Supply analog voltage.
Storage Temperature	-30~+80	°C	16	TP_VDD	P	Touch Power supply.
			17	TP_SDA	I	Touch IIC Data signal.
			18	TP_SCL	I	Touch IIC Clock signal.
			19	TP_INT	I	Touch Interrupt.
			20	TP_RST	I	Touch Reset signal.
			21	LEDK	P	Power supply for LED cathode input.
			22	LEDA	P	Power supply for LED anode input.
Parameter	Symbol	Min.	Typ.	Max.	Unit	
Digital supply voltage	VDD	2.5	2.8	3.6	V	
Digital interface supply Voltage	IOVCC	1.65	1.8	3.3	V	
Normal mode Current consumption	IDD	-	28	-	mA	
Level input voltage	VIH	0.7IOVCC		IOVCC	V	
	VIL	GND		0.3IOVCC	V	
Level output voltage	VOH	0.8IOVCC		IOVCC	V	
	VOL	GND		0.2IOVCC	V	
Parameter	Symbol	Min.	Typ.	Max.	Unit	
Forward Current Voltage	VF	11.6	12.6	13.6	V	
Forward Current	If	-	40	-	mA	
Backlight Power Consumption	Wbl	-	0.504	-	W	
LED Lifetime	-	30000	-	-	Hrs	