WINSTAR Display

OLED SPECIFICATION

Model No:

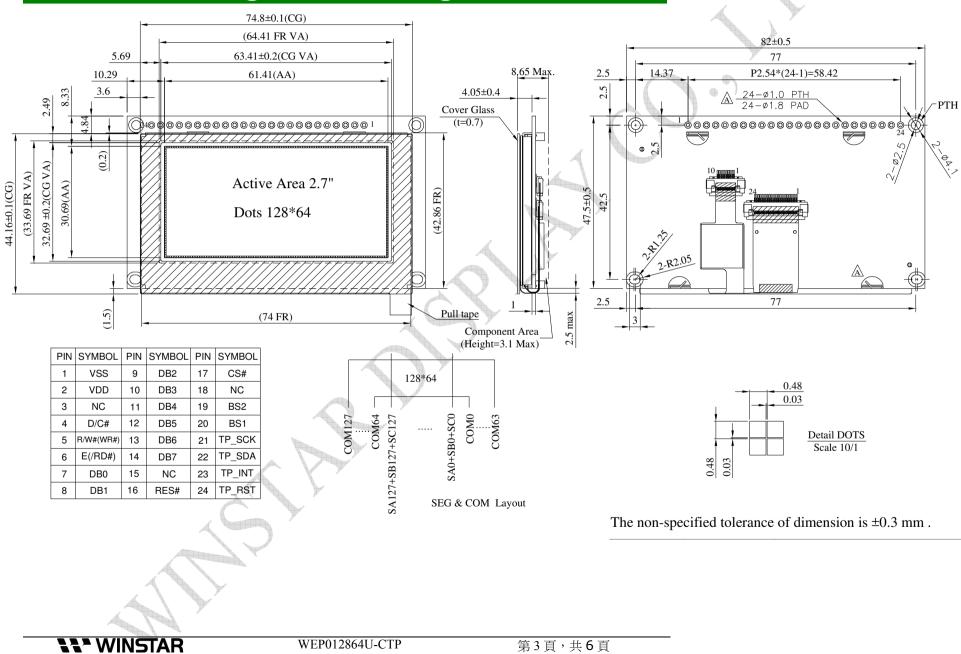
WEP012864U-CTP

General Specification

ltem	Dimension	Unit			
Dot Matrix	128 x 64 Dots				
Module dimension	82.0 × 47.5 × 8.65 Max.	mm			
Active Area	61.41 × 30.69	mm			
Pixel Size	0.45 × 0.45	mm			
Pixel Pitch	0.48 × 0.48	⊕mm			
Display Mode	Passive Matrix				
Display Color	Monochrome				
Drive Duty	1/64 Duty				
OLED IC	SSD1357				
Gray Scale	4 bits				
OLED Interface	8-bits 6800 and 8080 parallel, 4-line	SPI, I2C			
Size	2.7 inch				

CTP IC	GT911
Detect Point	1
CTP Interface	I2C
Surface	Normal Glare

Contour Drawing & Block Diagram



Interface Pin Function

No.	. Symbol	Function		
1	VSS	This is a ground pin.		
2	VDD	Power supply pin for core logic operation		
3	NC	Reserved Pin The N.C. pin between function pins is reserved for compatible and flexible design.		
4	D/C#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register. In I2C mode, this pin acts as SA0 for slave address selection. When 3-wire serial interface is selected, this pin must be connected to VSS		
5	R/W# (WR#)	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW. When 8080 interface mode is selected, this pin will be the Write (WR#) input. Data write operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS		
6	E/RD#	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected. When 8080 interface mode is selected, this pin receives the Read (RD#) signal. Read operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS		
7	DB0			
8	DB1	These pins are bi-directional data bus connecting to the MCU data bus.		
9	DB2	Unused pins are recommended to tie LOW.		
10	DB3	When serial interface mode is selected, D0 will be the serial clock input:		
11	DB4	SCLK; D1 will be the serial data input: SDIN.		
12		When I2C mode is selected, D2, D1 should be tied together and serve as		
13	10. A	SDAout, SDAin in application and D0 is the serial clock input, SCL.		
14				
15	NC	No connection		

16	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.			
17	CS#	Chip Select This pin is the chip select input. The chip is enabled for MCU communication only when CS# is pulled low.			
18	NC	No connection			
19	BS2	Communicating Protocol Select.			
20	BS1	I hese pins are MCU in I2C 4-wire Serial 8-bit 8080 Parallel 8-bit 6800 Parallel	BS1 1 0 1 0	See the following table: BS2 0 0 1 1	
21	TP_SCK	I2C clock signal	(
22	TP_SDA	I2C data signal			
23	TP_INT	Interrupt signal, active low, asserted to request Host start a new transaction			
24	TP_RST	External reset signal, a	ctive low		

Absolute Maximum Ratings

Parameter	Symbol	Min	Мах	Unit
Supply Voltage for Logic	VDD	-0.3	4.0	V
Operating Temperature	TOP	-20	+70	°C
Storage Temperature	TSTG	-30	+80	°C



Electrical Characteristics

DC Electrical Characteristics

ltem	Symbol	Condition	🖌 Min	Тур	Мах	Unit
Supply Voltage for Logic	VDD	Q-Y	2.8	3.0	3.3	V
High Level Input	VIH		0.8×VDD	_	_	V
Low Level Input	VIL	-	_	_	0.2×VDD	V
High Level Output	VOH		0.9×VDD	_	—	V
Low Level Output	VOL		_	_	0.1×VDD	V
50% Check Board operating Current	IDD	VDD =3V	_	160	240	mA