OLED DISPLAY SPECIFICATION





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REP012864Q-CTP

General Specification

■ Module dimension: 82.0 × 47.5 × 8.65 Max.

■ Active area: 61.41 × 30.69 mm

■ Dot Matrix: 128 x 64

Pixel size: 0.45 x 0.0.45 mmPixel pitch: 0.48 x 0.48 mm

■ Display Mode : Passive Matrix

■ Duty: 1/64 Duty

■ Display Color: Monochrome

■ OLED IC: SSD1309

OLED Interface: 6800, 8080, 4-Wire SPI, I2C

SIZE: 2.7 inchCTP IC: GT911Detect Point: 1

CTP Interface: I2C

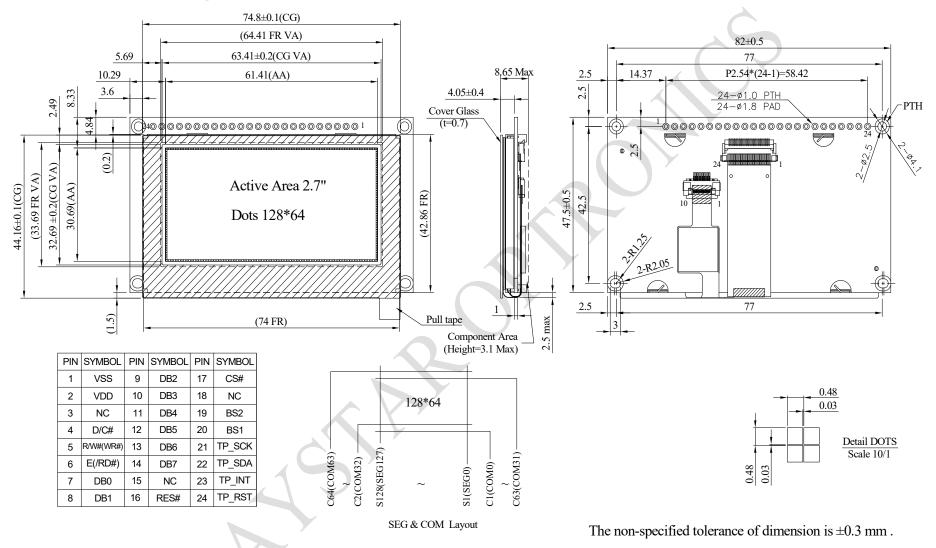
■ Surface: Normal Glare

Interface Pin Function

No.	Symbol	Function
1	VSS	Ground.
2	VDD	Power supply pin for core logic operation
3	NC	No connection
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.
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.
7-14	D0~D7	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC. When I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.
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#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).
18	NC	No connection

19	BS2	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2 and BS1 are pin select					
20	BS1	I 2 C 4-wire Serial 8-bit 68XX Parallel 8-bit 80XX Parallel	BS1 1 0 0 1	e. BS2 an BS2 0 1 1	d BS1 are pin select		
21	TP_SCK	2C clock signal					
22	TP_SDA	I2C data signal					
23	TP_INT	External interrupt signal, active low					
24	TP_RST	External reset signal, active low					

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Operating Temperature	TOP	-20	+70	°C
Storage Temperature	TSTG	-30	+80	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD		2.8	3.0	3.3	V
High Level Input	VIH	(-) Y	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 ope Current	rating	VDD =3V	_	175	350	mA

Touch Panel Controller GT911

Item	Symbol	Min	Тур	Max	Unit
Input High Volt.	VIH	0.75xVDD		VDD+0.3	V
Input Low Volt.	VIL	-0.3	_	0.25xVDD	V
Output High Volt.	VOH	0.85xVDD	_	_	V
Output Low Volt.	VOL	_	_	0.15xVDD	V