



OLED SPECIFICATION

Model No:

REX012864DWPP3N00F00

1.General Specification

The Features is described as follow:

■ Module dimension: 26.7 × 19.26 × 1.26 mm

■ Active area: 21.738 x 10.858mm

■ Dot Matrix: 128 x 64

■ Dot size: 0.148 × 0.148 mm

■ Dot pitch: 0.17 × 0.17mm

■ Display Mode: Passive Matrix

■ Duty: 1/64 Duty

■ Display Color: OLED , White

■ Interface: 6800,8080,SPI,I2C

■ Controller IC: SSD1306BZ

■ SIZE: 0.96 inch



Interface Pin Function

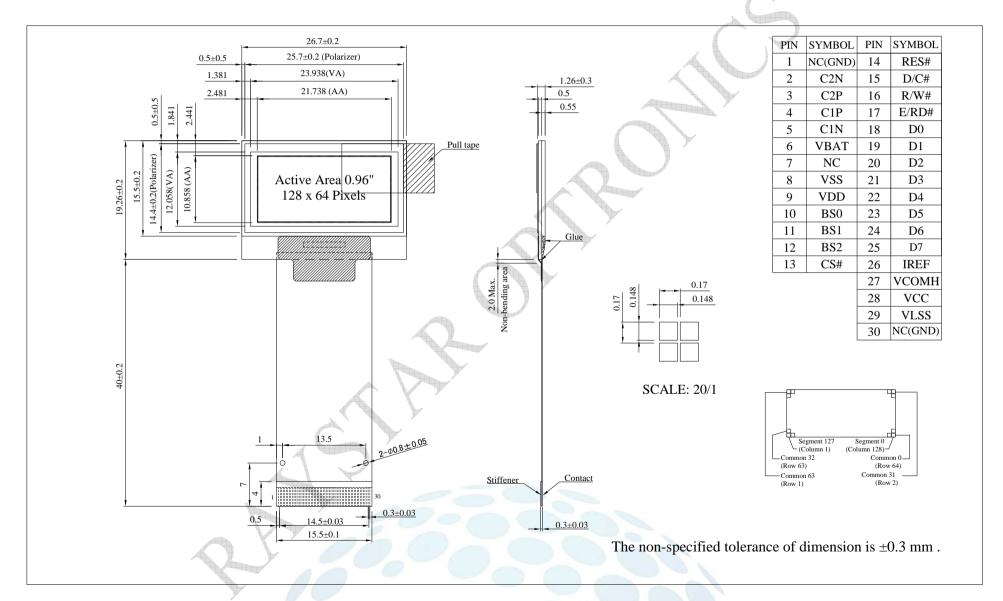
No.	Symbol	Function						
1.10.		Reserved Pin (Supporting Pin)						
1	N.C. (GND)	The supporting pins can reduce the influences from stresses on the function						
		pins. These pins must be connected to external ground.						
2	C2N	2						
3	C2P	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the						
4	C1P	Flying Boost Capacitor The charge-pump capacitors are required between the						
5	C1N	terminals. They must be floated when the converter is not used.						
6	VBAT	Power Supply for DC/DC Converter Circuit						
		This is the power supply pin for the internal buffer of the DC/DC voltage						
0		converter. It must be connected to external source when the converter is used. It						
		should be connected to VDD when the converter is not used.						
7	NC	NC						
		Ground of Logic Circuit						
8	VSS	This is a ground pin. It acts as a reference for the logic pins. It must be						
		connected to external ground.						
9	VDD	Power Supply for Logic						
	,,,,,	This is a voltage supply pin. It must be connected to external source.						
10	BS0	Communicating Protocol Select						
10		These pins are MCU interface selection input. See the						
		following table:						
11	BS1	BS0 BS1 BS2 I2C 0 1 0						
		3-wire SPI 1 0 0						
12	BS2	4-wire SPI						
12	D32	8-bit 80XX Parallel 0 1 1						
	CS#	Chip Select						
13		This pin is the chip select input. The chip is enabled for MCU communication						
		only when CS# is pulled low.						
	RES#	Power Reset for Controller and Driver						
14		This pin is reset signal input. When the pin is low, initialization of the chip is						
		executed.						
		Data/Command Control						
		This pin is Data/Command control pin. When the pin is pulled high, the input at						
		D7~D0 is treated as display data.						
	D/C#	When the pin is pulled low, the input at D7~D0 will be transferred to the						
15		command register. For detail relationship to MCU interface signals, please refer to the Timing Characteristics Diagrams.						
		When the pin is pulled high and serial interface mode is selected, the data at						
		SDIN is treated as data. When it is pulled low, the data at SDIN will be						
		transferred to the command register. In I2C mode, this pin acts as SA0 for slave						
		address selection.						



16	R/W#	Read/Write Select or Write This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Pull this pin to "High" for read mode and pull it to "Low" for write mode. When 80XX 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 CS# is pulled low.
17	E/RD#	Read/Write Enable or Read This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled high and the CS# is pulled low. When connecting to an 80XX-microprocessor, this pin receives the Read (RD#) signal. Data read operation is initiated when this pin is pulled low and CS# is pulled low.
18~25	D0~D7	Host Data Input/Output Bus These pins are 8-bit bi-directional data bus to be connected to the microprocessor's data bus. When serial mode is selected, D1 will be the serial data input SDIN and D0 will be the serial clock input SCLK. When I2C mode is selected, D2 & D1 should be tired together and serve as SDAout & SDAin in application and D0 is the serial clock input SCL.
26	IREF	Current Reference for Brightness Adjustment This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 12.5µA.
27	VCOMH	Voltage Output High Level for COM Signal This pin is the input pin for the voltage output high level for COM signals. A capacitor should be connected between this pin and VSS.
28	VCC	Power Supply for OEL Panel This is the most positive voltage supply pin of the chip. A stabilization capacitor should be connected between this pin and VSS when the converter is used. It must be connected to external source when the converter is not used.
29	VLSS	Ground of Analog Circuit This is an analog ground pin. It should be connected to VSS externally.
30	NC (GND)	Reserved Pin (Supporting Pin) The supporting pins can reduce the influences from stresses on the function pins. These pins must be connected to external ground.



Contour Drawing & Block Diagram





Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	0	4.0	V
Supply Voltage for Display	VCC	0	15.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit				
Supply Voltage for Logic	VDD		2.8	3.0	3.3	٧				
Supply Voltage for Display	VCC	_	11.5	12.0	12.5	V				
Input High Volt.	VIH	_	0.8×VDD	<u> </u>	VDDIO	V				
Input Low Volt.	VIL	-50	0		0.2×VDD	V				
Output High Volt.	VOH	200	0.9×VDD	9	VDDIO	V				
Output Low Volt.	VOL	_	0		0.1×VDD	V				
Operating Current for VCC (50% display ON)	ICC	_	_	19.5	25.0	mA				