

MCOT096016C1V	MCOT096016C1V-BI		Blue		OLED Module
Specification					
Version: 1 Date: 08/08/2017					
			Revision		
1	06/01/	2017	First issue.		

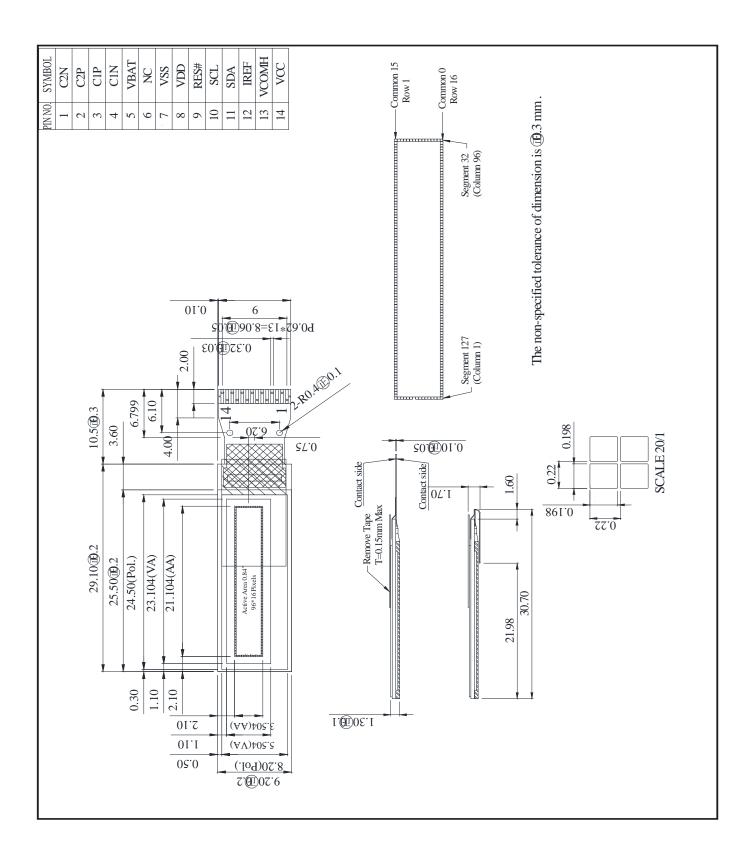
Displa	Display Features		
Resolution	96 x 16		
Appearance	Blue on Black		
Logic Voltage	3V		RoHS
Interface	I2C		compliant
Module Size	29.10 x 9.20 x 1.30 mm		
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	TAB		

\* - For full design functionality, please use this specification in conjunction with the SSD1306BZ specification.(Provided Separately)

Disp	Display Accessories					
Part Number	Description					

	Optional Variants					
	Appearance	Voltage				
White						

Mechanical Specifications						
Module Size	29	0.10 x 9.20 x 1.	30 mm (Without Ba	acklight)	W x H x D mm	
Active Area	21.104 x 3.504	W x H mm	Hole-to-Hole		W x H mm	
Dot Size	0.198 x 0.198	W x H mm	Dot Pitch	0.220 x 0.220	W x H mm	

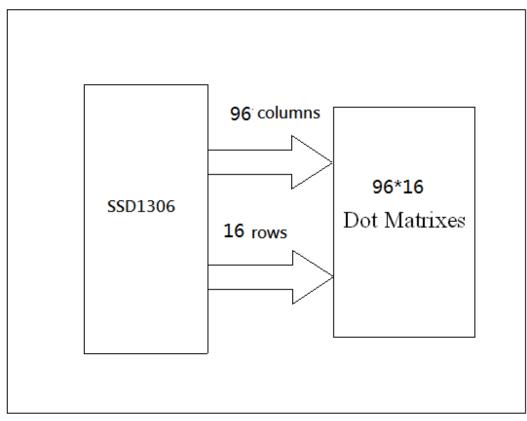


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	Pin layout							
Pin	Symbol	Description	Remarks					
1	C2N							
2	C2P	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor. The charge-pump						
3	C1P	capacitors are required between the terminals. They must be floated when the converter is not used.						
4	C1N							
5	VBAT	Power Supply for DC/DC Converter Circuit. This is the power supply pin for the internal buffer of the DC/DC voltage 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.						
6	NC	No connection.						
7	VSS	Ground of OEL System. This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.						
8	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.						
9	RES#	Power Reset for Controller and Driver This pin is reset signal input. When the pin is low, initialization of the chip is executed.						
10	SCL	I2C Bus Clock Signal. The transmission of information in the I2C bus is following a clock signal. Each transmission of data bit is taken place during a single clock period of this pin.						
11	SDA	I2C Bus Data Signal. Pin acts as a communication channel between the transmitter and the receiver.						
12	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 10µA.						
13	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.						
14	VCC	Power Supply for OEL Panel. This is the most positive voltage supply pin of the chip. Supply externally.						

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## **Block Diagram**



\*For more information, please refer to Application Note provided by Midas.

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Absolute Maximum Ratings							
Item Symbol Condition Min Typ Max Uni							
Supply Voltage for Logic	VDD		0.00		4.00	V	
Supply Voltage for Display	VCC		0.00		16.00	V	
Operating Temperature	TOP		-40		80	С	
Storage Temperature	TSTG		-40		80	С	

	Ele	ectronic Ch	aracteristi	cs		
ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit
Input High Voltage	VIH		0.80xVDD		VDD	V
Input Low Voltage	VIL		0.00		0.20xVDD	V
Output High Voltage	VOH		0.90xVDD		VDD	V
Output Low Voltage	VOL		0.00		0.10xVDD	V
Supply Voltage for Logic	VDD		2.80	3.00	3.30	V
Supply Voltage for Display (Supplied Externally)	VCC		7.00	7.50	7.80	V
Charge Pump Regulator Supply Voltage	VBAT		3.30		4.20	V
Charge Pump Output Voltage for Display (Generated by Internal DC/DC)	Charge Pump VCC		7.00	7.50	7.80	V
50% Checkboard Operating Current (VCC Supplied Externally)	ICC			7.00	15.00	mA
50% Checkboard Operating Current (VCC Generated by Internal DC/DC)	IBAT		10.00	15.00	25.00	mA

OLED Characteristics								
ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit		
	θ(V)		160			Deg		
Viewing Angle (Ψ)σ (Η)φ	(H)φ		160			Deg		
Contrast Ratio	CR	Dark	2000:1					
Deenena Time TR	T Rise			10		μs		
Response Time	T Fall			10		μs		
Display with 5 board brightne			120	150		cd/m2		
CIEx(Blue	)	CIE1931	0.12	0.16	0.20			
CIEy(Blue	)	CIE1931	0.22	0.26	0.30			

OLED Life Time					
ltem	Conditions	Typical	Remark		
Operating Life Time	Ta=25°C. Initial checkboard brightness 50%.	50,000 Hours			

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