

MCOT21605A1V-I	EYM 2	x 16	Euro/	OLED Module		
Specification						
Version: 1			Date: 10/10/2017			
			Revision			
1	18/09/2014	ŀ	First Issue.			

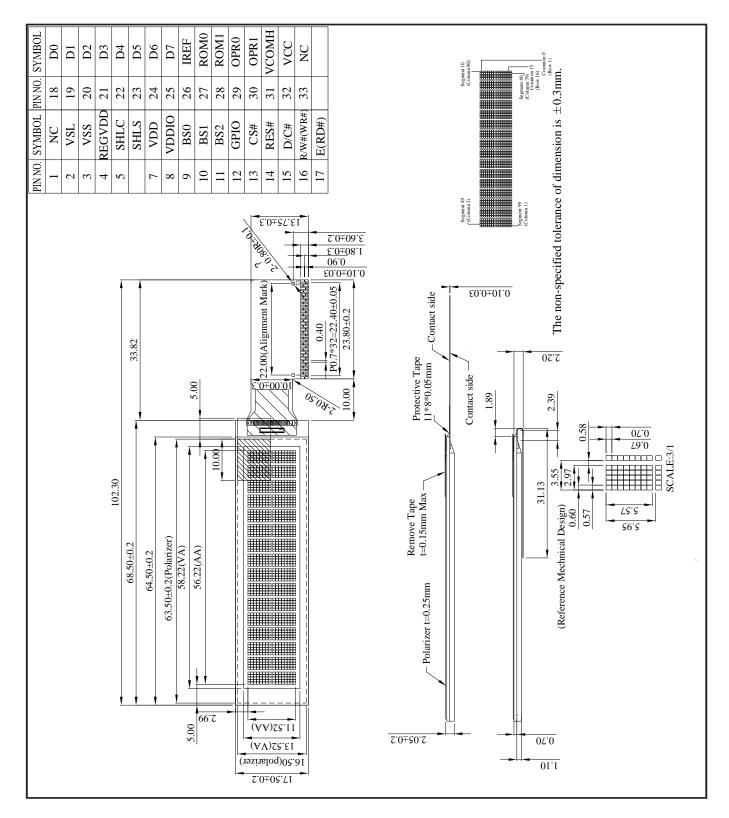
Disp			
Character Count	2 x 16		
Appearance	Yellow on Black		
Logic Voltage	5V		
Interface	Parallel / SPI / I2C		COHS
Font Set	English / Japanese / Cyrillic		CoHS ompliant
Character Height	5.57		omphant
Module Size	68.50 x 17.50 x 2.05 mm		
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	ТАВ		

* - For full design functionality, please use this specification in conjunction with the SSD1311 specification.(Provided Separately)

Display Accessories					
Part Number	Description				
MPBV4-Iss2	Direct solder-to-2mm pitch DIL pinout interface board. Compatible with: 0.7, 0.8, 0.845 and 1mm pitch pads.				
MCIB-13 V2	Direct solder OLED character interface board. Used in conjunction with MCIB-12 and UC32.				

Optional Variants				
Appearance	Voltage			
Blue on Black				
Green on Black				
Red on Black				
White on Black				
Interface				

Mechanical Specifications								
Module Size	68.50 x 17.50 x 2.05 (Without Backlight) W x H x D mm							
Active Area	56.22 x 11.52	56.22 x 11.52 W x H mm Hole-to-Hole W x						
Character Size	2.96 x 5.57	W x H mm	Character Pitch	3.55 x 5.95	W x H mm			
Dot Size	0.57 x 0.67	W x H mm	Dot Pitch	0.60 x 0.70	W x H mm			



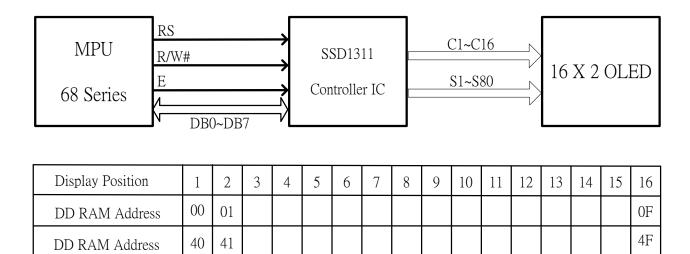
 MCOT21605A1V-EYM
 2 x 16
 Euro/Jap/Cyrillic
 OLED Module

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Block Diagram



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	Pin Layout							
Pin	Symbol	Description						
1	NC	No connection						
2	VSL	his is segment voltage (output low level) reference pin. /hen external VSL is not used, this pin should be left open. /hen external VSL is used, connect with resistor and diode to ground (details depend on application).						
3	VSS	Ground pin. It must be connected to external ground.						
4	REGVDD	Internal VDD regulator selection pin in 5V I/O application mode. When this pin is pulled HIGH, internal VDD regulator is enabled (5V I/O application). When this pin is pulled LOW, internal VDD regulator is disabled (Low voltage I/O application).						
5	SHLC	This pin is used to determine the Common output scanning direction. COM scan direction 1 COM to COM31 (Normal) 0 COM31 to COM0 (Reverse) (1) 0 s connected to VSS (2) 1 s connected to VDDIO						
6	SHLS	This pin is used to change the mapping between the display data column address and the Segment driver. SEG scan direction SHLS SEG direction 1 SEG99 (Normal) 0 SEG99 to SEG0 (Reverse) (1) 0 s connected to VSS (2) 1 s connected to VDDIO						
7	VDD	Power Supply For Core Logic Operation. VDD can be supplied externally or regulated internally. In LV IO application (internal VDD is disabled), this is a power input pin. In 5V IO application (internal VDD is enabled), VDD is regulated internally from VDDIO. A capacitor should be connected between VDD and VSS under all circumstances.						
8	VDDIO	Low voltage power supply and power supply for interface logic level in both Low Voltage I/O and 5V I/O application. It should match with the MCU interface voltage level and must be connected to external source.						
9	BS0	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, BS1 and BS0 are pin select.						
10	BS1	Bus Interface selection						
11	BS2	BS[2:0] Interface 000 Serial Interface 001 Invalid 010 I ² C 011 Invalid 100 8-bit 6800 parallel 101 4-bit 6800 parallel 110 8-bit 8080 parallel 111 4-bit 8080 parallel						
12	GPIO	GPIO pin. Details refer to OLED command DCh.						
13	CS#	Chip Select Input Connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW). In I2C mode, this pin must be connected to VSS.						
14	RES#	Reset Signal Input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.						

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		Data/Command Control Din Compacting to the MOU									
		Data/Command Control Pin Connecting to the MCU.									
15	D/C#	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.									
15	D/C#	n I2C mode, this pin acts as SA0 for slave address selection.									
		When serial interface is selected, this pin must be connected to VSS.									
		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.									
16	R/W#(WR#)	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.									
		MCU Interface Input.									
		When 6800 interface mode is selected, this pin will be used as the Enable (E) signal.									
17	E(RD#)	Read/write operation is initiated when this pin is pulled HIGH and the chip is selected.									
17		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.									
		Bi-directional Data Bus Connecting to the MCU data bus.									
		Unused pins are recommended to tie LOW.									
18-25	D0~D7	When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial									
10-20	00.007	data input: SID and D2 will be the serial data output: SOD. When I2C mode is selected, D2, D1 should be tigd together and serve as SDAout, SDAin in									
		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.									
		Segment Output Current Reference pin.									
26	IREF	IREF is supplied externally.									
		A resistor should be connected between this pin and VSS to maintain current of around 15uA.									
		These pins are used to select Character ROM; select appropriate logic setting as described in the									
		following table. ROM1 and ROM0 are pin select as shown in below table:									
		Character ROM selection									
27	ROM0	ROMI ROM0 ROM									
		0 0 A									
		0 l B									
		1 0 C									
		1 I S/W selectable (3)									
28	ROM1	Note									
20	T(OIWI)	(1) 0 is connected to VSS									
		(2) 1 is connected to VDDIO									
		This pin is used to select the character number of character generator.									
		Character RAM selection									
	0000										
29	OPR0	OPR1 OPR0 CGROM CGRAM 1 1 256 0									
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
L		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
30	OPR1	Note									
		(1) 0 is connected to VSS									
		(2) 1 is connected to VDDIO									
		COM signal deselected voltage level.									
31	VCOMH										
	No external power supply can connect to this pin.										
32	VCC	Power Supply for Panel Driving Voltage.									
32	v	This is also the most positive power voltage supply pin. It is supplied by external high voltage source.									
33	NC	No connection.									
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Font Map

										1	1				-
Upper 4bit Lower 4bit	LLLL	LLLH	LLHL	LLHH	LHLL	LHLH	LHHL	LННН	HLLL	HLLH	HLHL	нгнн	HHLL		
LLLL	CG RAM (1)														
LLLH	(2)														
LLHL	(3)														
LLHH	(4)														
LHLL	(5)														
LHLH	(6)														
LHHL	(7)														
LHHH	(8)														
HLLL	(1)														
HLLH	(2)														
HLHL	(3)														
HLHH	(4)														
HHLL	(5)														
HHLH	(6)														
HHHL	(7)														
нннн	(8)														

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Upper														
4bit Lower 4bit	LLLL	LLLH	LLHL	LLHH	LHLL	LHLH	LHHL	HLLL	HLLH	HLHL	нгнн	HHLL	ннгн	
LLLL	CG RAM (1)													
LLLH	(2)													
LLHL	(3)													
LLHH	(4)													
LHLL	(5)													
LHLH	(6)													
LHHL	(7)													
LННН	(8)													
HLLL	(1)													
HLLH	(2)													
HLHL	(3)													
нгнн	(4)													
HHLL	(5)													
HHLH	(6)													
HHHL	(7)													
нннн	(8)													

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Upper															
4bit Lower 4bit	LLLL	LLLH	LLHL	LLHH	LHLL	LHLH	LHHL	LHHH	HLLL	HLLH	HLHL	HLHH	HHLL	ннгн	нннн
LLLL	CG RAM (1)														
LLLH	(2)														
LLHL	(3)														
LLHH	(4)														
LHLL	(5)														
LHLH	(6)														
LHHL	(7)														
LHHH	(8)														
HLLL	(1)														
HLLH	(2)														
HLHL	(3)														
HLHH	(4)														
HHLL	(5)														
HHLH	(6)														
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Absolute Maximum Ratings									
ltem	Symbol	Condition	Min	Тур	Мах	Unit			
Supply Voltage for Logic	VDDIO		-0.3		6.00	V			
Operating Temperature	TOP		-40		80	°C			
Storage Temperature	TST		-40		85	°C			

Electronic Characteristics									
ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit			
Input High Voltage	VIH		0.80xVDD			V			
Input Low Voltage	VIL				0.20xVDD	V			
Output High Voltage	VOH	IOH=0.5mA	0.90xVDD			V			
Output Low Voltage	VOL	IOL=0.5mA			0.10xVDD	V			
Supply Voltage for Logic	VDDIO		4.80	5.00	5.30	V			
Supply Voltage for Display	VCC		10.00	12.00	15.00	V			
50% Checkboard Operating Current.	IDD	VCC=12V	14	16	18	mA			
CIEx(Yellow)		(CIE1931)	0.45	0.47	0.49				
CIEy(Yellow)		(CIE1931)	0.48	0.50	0.52				

	OLED Characteristics									
ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit				
Viewing Angle	θ(V)		160			Deg				
Viewing Angle	(H)φ		160			Deg				
Contrast Ratio	CR	Dark	2000:1							
Deenenee Time	T Rise			10		μs				
Response Time	T Fall 10	10		μs						
Display with 50% Checkboard Brightness			90	110		cd/m ²				

OLED Life Time								
Item	Conditions	Typical	Remark					
Operating Life Time	Ta=25°C. Initial checkboard brightness. 50%.	100,000 Hours						

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