

MC41605A6W-GPTLY-V2 4 x 16		5mm Character Height	LCD Module				
Specification							
Version: 1		Date: 20/10/2016					
	Revision						

Display	Features
Operating Temp. Range	-20°C ~ +70°C
Viewing Direction	6 O'Clock
STN	Gray Transflective
Backlight	LED Yellow/Green
Controller	SPLC780D
Characters	4 x 16
Voltage	5V
Module Size	87.00 x 60.00 x 14.5 mm
Character Height	5mm
Display Construction	Chip on Board

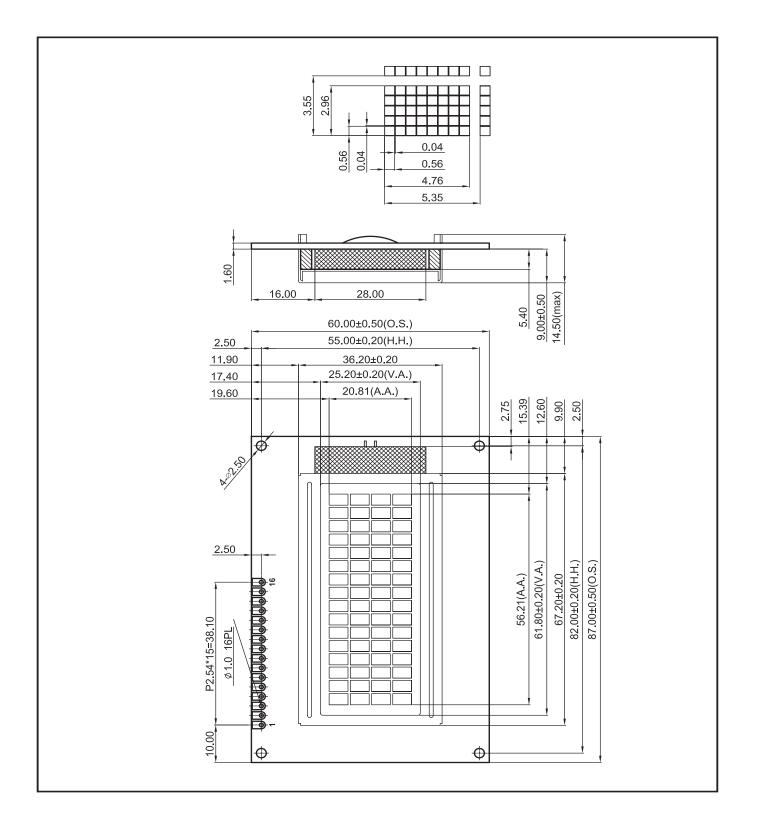


Box Quantity	Weight / Display
30 pcs	75 grams

* - For full design functionality, please use this specification in conjunction with the SPLC780D specification. (Provided Separately)

Optional Variants			Display Accessories		
Fonts	Physical Aspects	Voltage	Part Number	Description	
English/Japanese N/A	N/A	MCCMDB-16SIL	LCD interconnect board, can be driven from either a PC or a single board computer with a USB output.		
		N/A	MCCBL1A16SILP -16DILS-150	16 Way, Single in-line to Dual In-line connector Cable.	
			MCCBL1A16SILP -16SILS-150	16 Way, Single in-line to Single In-line connector Cable.	

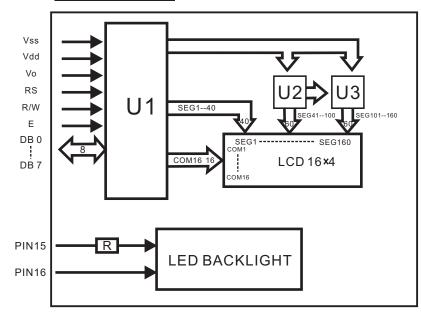
Mechanical Specifications									
Module Size	87.00 x 60.00 x 14.5 (With Backlight) W x H x D mm								
Viewing Area	61.80 x 25.20	W x H mm	Hole-to-Hole	82.00 x 55.00	W x H mm				
Character Size	2.96 x 4.76	W x H mm	Character Pitch	0.59 x 0.59	W x H mm				
Dot Size	0.56 x 0.56	W x H mm	Dot Pitch	0.04 x 0.04	W x H mm				



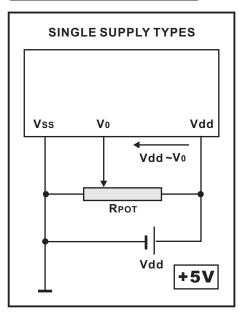
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	Pin Layout							
ΡI	SYMBOL	DESCRIPTION	REMARKS					
1	Vss	GND						
2	Vdd	Power supply for LCM	5.0V					
3	V0	Contrast Adjust						
4	RS	Register Select Signal						
5	R/W	Data Read / Write						
6	E	Enable Signal						
7	DB0	Data bus line						
8	DB1	Data bus line						
9	DB2	Data bus line						
10	DB3	Data bus line						
11	DB4	Data bus line						
12	DB5	Data bus line						
13	DB6	Data bus line						
14	DB7	Data bus line						
15	LED+	Power supply for BKL	3.0V					
16	LED-	Power supply for BKL						

Block Diagram



Power Supply Diagram



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Font Map

Upper 4bit Lower 4bit	LLLL	LLLH	LLHL	LLHH	LHLL	LHLH	LHHL	LHHH	HLLL	HLLH	HLHL	HLHH	HHLL	HHLH	HHHL	нннн
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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Absolute Maximum Ratings										
Item	Symbol	Condition	Min	Тур	Max	Unit				
Power Supply (LOGIC)	Vdd	25°C	-0.3		7.0	V				
Power Supply (LCD)	V0	25°C	Vdd -13.5		Vdd +0.3	V				
Input Voltage	Vin	25°C	-0.3		Vdd +0.3	V				
Operating Temperature	Vopr		-20		70	С				
Storage Temperature	Vstg		-30		80	С				

Electronic Characteristics										
Item	Symbol	Condition	Min	Тур	Мах	Unit				
Input Voltage	VIcm = Vdd			5.0		V				
Supply Current	ldd	Vdd=5V		1.5		mA				
		-20°C	4.40		4.90					
		0°C	4.30		4.80					
Driving Voltage for LCD Panel	Vlcd = (Vdd - V0)	25°C	4.25	4.50	4.75	V				
LCD Panel		50°C	4.20		4.70					
		70°C	4.05		4.55					

LCD Characteristics								
For STN/FSTN LCD Panel	Types							
ltem	Symbol	Condition	Min	Тур	Max	Unit		
	Φ2 – Φ1		40°			Deg		
Viewing Angle	Θ	K = 4	60°			Deg		
Contrast Ratio	K			10				
Response Time (Rise)	TR			150	250	ms		
Response Time (Fall)	TF			150	250	ms		

LED Characteristics								
Item	Symbol	Condition	Min	Тур	Max	Unit		
LED Forward Voltage	Vf	25°C lf=15mA	2.8		3.1	V		
LED Forward Current*	lf	25°C		5		mA		
LED Reverse Current	lr	25°C Vr=5.0V			10	А		
LED Peak Wave Length	λр	25°C lf=15mA	569		575	nm		
LED Brightness (Without LCD)	Lv	25°C lf=15mA		180		cd/m ²		
LED Brightness Uniformity	Lvmin/Lvmax	25°C lf=15mA	70			Ratio		
LED Life Time		25°C lf=15mA	9K			Hours		

Attention: It is constant current, not constant voltage, which should be applied when driving the LED backlight, please ensure you adhere to this rule.

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Power Supply (LCD)	V0	25°C	Vdd -13.5		Vdd +0.3	V	
Input Voltage	Vin	25°C	-0.3		Vdd +0.3	V	
Operating Temperature	Vopr		-20		70	С	
Storage Temperature	Vstg		-30		80	С	

Electronic Characteristics							
Item	Symbol	Condition	Min	Тур	Мах	Unit	
Input Voltage	VIcm = Vdd		4.7	5.0	5.5	V	
Supply Current	Idd	Vdd=5V		1.5		mA	
		-20°C	4.45		4.90		
		0°C	4.35		4.87		
Driving Voltage for LCD Panel	VIcd = (Vdd - V0)	25°C	4.30	4.50	4.85	V	
LOD Panel		50°C	4.25		4.80		
		70°C	4.10		4.70		

LCD Characteristics								
For STN/FSTN LCD Panel	Types							
ltem	Symbol	Condition	Min	Тур	Max	Unit		
	Φ2 – Φ1		40°			Deg		
Viewing Angle	Θ	K = 4	60°			Deg		
Contrast Ratio	K			10				
Response Time (Rise)	TR			150	250	ms		
Response Time (Fall)	TF			150	250	ms		

LED Characteristics								
Item	Symbol	Condition	Min	Тур	Max	Unit		
LED Forward Voltage	Vf	25°C	2.8		3.1	V		
LED Forward Current*	lf	25°C		5		mA		
LED Reverse Current	lr	25°C Vr=5.0V			10	А		
LED Peak Wave Length	λр	25°C lf= 5mA	569		575	nm		
LED Brightness (Without LCD)	Lv	25°C lf= 5mA		88		cd/m ²		
LED Brightness Uniformity	Lvmin/Lvmax	25°C lf= 5mA	70			Ratio		
LED Life Time		25°C If= 5mA	20K			Hours		

Attention: It is constant current, not constant voltage, which should be applied when driving the LED backlight, please ensure you adhere to this rule.

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