

MC128064B6W-FPTLW-V2	128 x 64	LCD Module
Specification		
Version: 1	Date: 31/10/2016	
Revision		

Display Features	
Operating Temp. Range	-20°C ~ +70°C
Viewing Direction	6 O'Clock
STN	FSTN Transflective
Backlight	LED White
Controller	NT7107
Characters	128 x 64
Voltage	5V
Module Size	78.00 x 70.00 x 15.00 mm
Display Construction	Chip on Board



Box Quantity	Weight / Display
45 pcs	36.11 grams

* - For full design functionality, please use this specification in conjunction with the NT7107 specification. (Provided Separately)

Optional Variants			Display Accessories	
Fonts	Physical Aspects	Voltage	Part Number	Description
N/A	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.

Absolute Maximum Ratings						
Item	Symbol	Condition	Min	Typ	Max	Unit
Power Supply (LOGIC)	Vdd	25°C	-0.3	---	7.0	V
Power Supply (LCD)	V0	25°C	Vdd -19.00	---	Vdd +0.3	V
Input Voltage	Vin	25°C	-0.3	---	Vdd +0.3	V
Operating Temperature	Vopr	---	-20	---	70	C
Storage Temperature	Vstg	---	-30	---	80	C

Electronic Characteristics						
Item	Symbol	Condition	Min	Typ	Max	Unit
Input Voltage	Vlcm = Vdd	---	---	5.0	---	V
Supply Current	Idd	Vdd=5V	---	6.0	---	mA
Driving Voltage for LCD Panel	Vlcd = (Vdd - V0)	-20°C	8.40	---	8.80	V
		0°C	---	---	---	
		25°C	7.80	---	8.30	
		50°C	---	---	---	
		70°C	7.80	---	8.40	

LCD Characteristics						
For STN/FSTN LCD Panel Types						
Item	Symbol	Condition	Min	Typ	Max	Unit
Viewing Angle	$\Phi 2 - \Phi 1$	K = 4	40°	---	---	Deg
	Θ		60°			
Contrast Ratio	K	---	---	10	---	---
Response Time (Rise)	TR	---	---	150	250	ms
Response Time (Fall)	TF	---	---	150	250	ms

LED Characteristics						
Item	Symbol	Condition	Min	Typ	Max	Unit
LED Forward Voltage	Vf	25°C If=25mA	---	5.0	---	V
LED Forward Current*	If	25°C	---	25	---	mA
LED Reverse Current	Ir	25°C Vr=5.0V	---	---	30	A
LED Colour Range	X Coordinate	25°C If=25mA	0.26	---	0.30	---
	Y Coordinate		0.27	---	0.31	---
LED Brightness (Without LCD)	Lv	25°C If=25mA	---	330	---	cd/m ²
LED Brightness Uniformity	Lvmin/Lvmax	25°C If=25mA	70	---	---	Ratio
LED Life Time	---	25°C If=25mA	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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