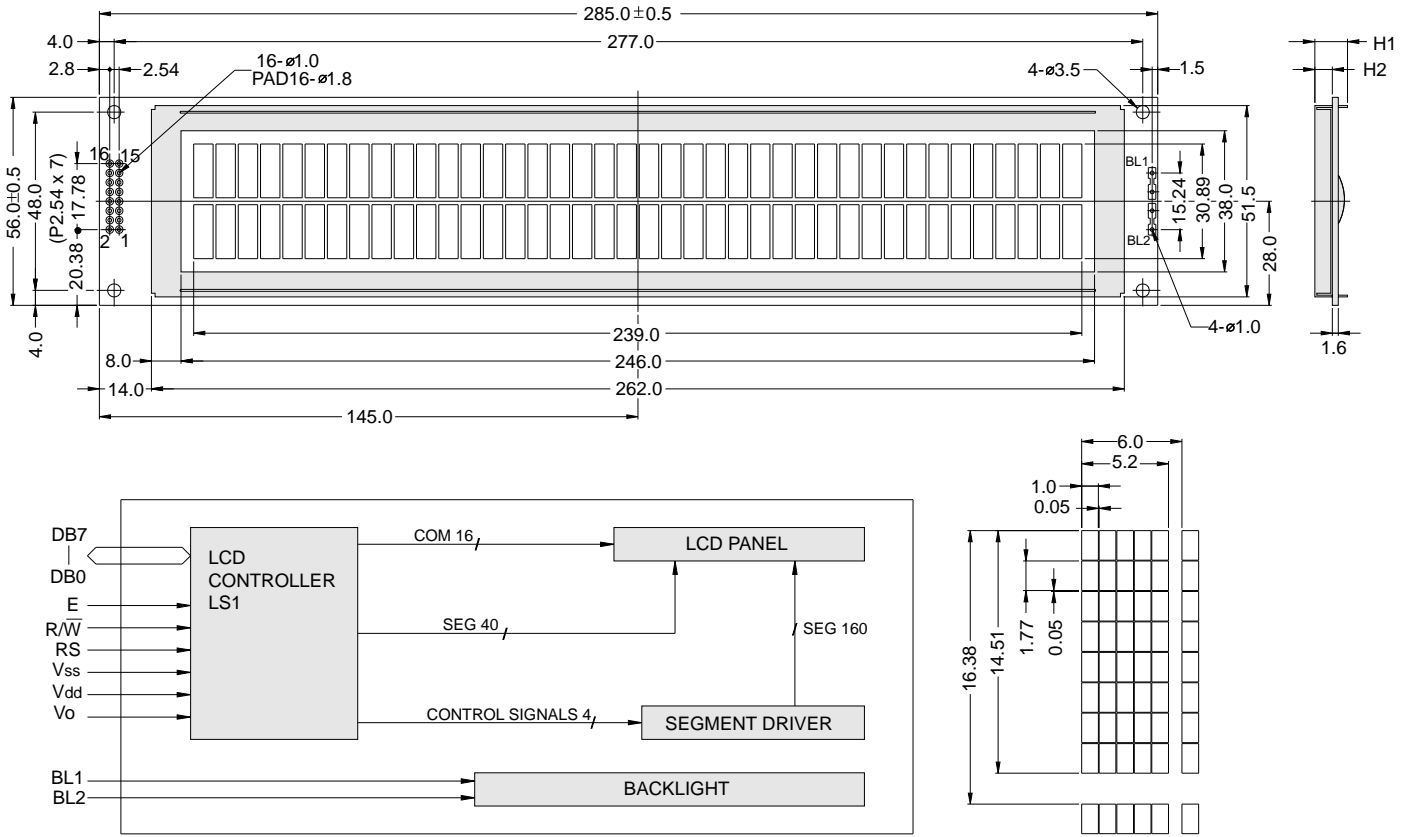


OUTLINE DIMENSION & BLOCK DIAGRAM



The tolerance unless classified ± 0.3mm

MECHANICAL SPECIFICATION			
Overall Size	285.0 x 56.0	Module	H2 / H1
View Area	246.0 x 38.0	W / O B/L	4.7 / 8.8
Dot Size	1.00 x 1.77	EL B/L	4.7 / 8.8
Dot Pitch	1.05 x 1.82	LED B/L	- / -

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	V _{ss}	Power supply(GND)
2	V _{dd}	Power supply(+)
3	Vo	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	A	Power supply for LED B/L (+)
16	K	Power supply for LED B/L (-)
	BL1	Power supply for EL B/L
	BL2	Power supply for EL B/L

ABSOLUTE MAXIMUM RATING									
Item	Symbol	Condition	Min.	Max.	Units				
Supply for logic voltage	V _{dd} -V _{ss}	25°C	-0.3	7	V				
LCD driving supply voltage	V _{dd} -V _{ee}	25°C	-0.3	13	V				
Input voltage	V _{in}	25°C	-0.3	V _{dd} +0.3	V				
ELECTRICAL CHARACTERISTICS									
Item	Symbol	Condition	Min.	Typical	Max.	Units			
Power supply vlotage	V _{dd} -V _{ss}	25°C	2.7	-	5.5	V			
LCD operation voltage	V _{op}	Top	N	W	N	W	N	W	V
		-20°C	-	7.1	-	7.5	-	7.9	V
		0°C	4.5	-	4.8	-	5.1	-	V
		25°C	4.1	6.1	4.4	6.4	4.7	6.7	V
		50°C	3.8	-	4.1	-	4.4	-	V
		70°C	-	5.7	-	6	-	6.3	V
LCM current consumption (No B/L)	I _{dd}	V _{dd} =5V	-	2.5	4	mA			
Backlight current consumption	LED/edge	VB/L=4.2V	-	-	-	mA			
	LED/array	VB/L=4.2V	-	-	-	mA			

REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED,EL Backlight feature, other Specs not available on catalog is under request.

