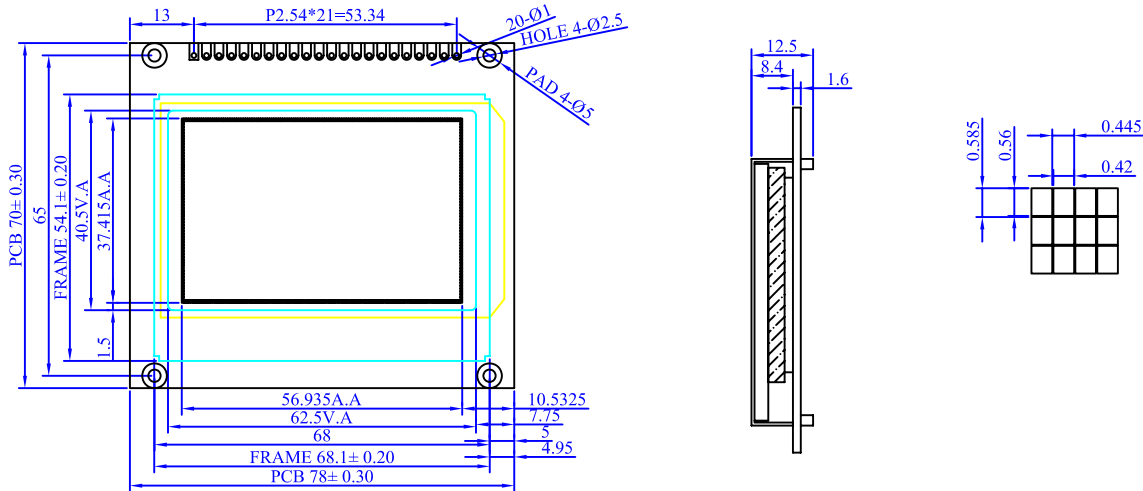


1.DIMENSION OUTLINE



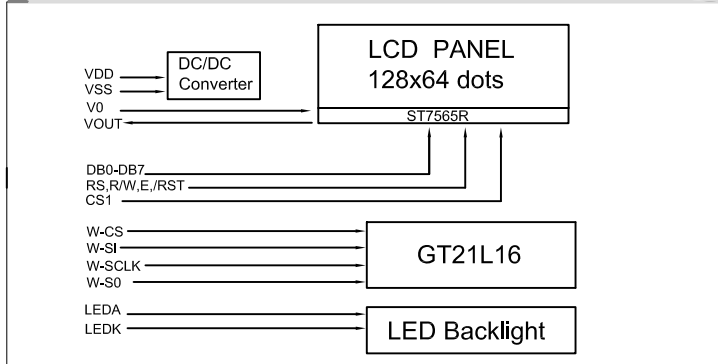
2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	78.0×70.0×12.5	mm	Reference Dimensional Outline
View Area(W×H)	62.5×40.5	mm	
Effective V/Area	56.935×37.415	mm	
Number of Characters	128×64	-	
Dot Pitch(W×H)	0.585×0.445	mm	
Dot Size(W×H)	0.56×0.42	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V _{DD}	Ta=25°C	-0.3V	3.5V
LCD Voltage	V _{LCD}		-0.3V	10.5V
Input Voltage	V _I		-0.3V	V _{DD} +0.3V
Operation Temperature	T _{OP}	—	-20°C	70°C
Storage Temperature	T _{St}	—	-30°C	80°C

4.BLOCK DIAGRAMMECHANICAL



5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25°C				
Forward Voltage	V _f	3.1	3.3	V
Forward Current	I _f	60	—	mA
Emission Wave Length	λ _p			

6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	FG	0V	Frame Ground
2	VSS	0V	Power Ground
3	VDD	+3.3V	Power supply for logic
4	W-CS	L	Chip selection for GT21L16
5	/WR	L	Write Signal
6	RD	H	Read Signal
7	/CS	L	Chip selection
8	RS	H/L	L:data H:command
9	/RST	L	Reset Signal
10-17	DB0-DB7	H/L	Data bus0-7
18	W-SI		Serial data input for GT21L16
19	LEDK	0V	Power supply for LED Backlight
20	LEDA	+3.3V	
21	W-SCLK	H/L	Serial clock input for GT21L16
22	W-SO		Serial data output for GT21L16

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25°C					
Logic Power	V _{DD}	3.0	3.3	3.6	V
Input High Voltage	V _{IH}	0.8V _{DD}	—	V _{DD}	V
Input Low Voltage	V _{IL}	VSS	—	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	—	V _{DD}	V
Output Low Voltage	V _{OL}	0	—	0.2V _{DD}	V
Logic Current	I _{DD}	—	1.6	2.5	mA
Operation Voltage For LCD	V _{DD-V0}	—	8.8	—	V