

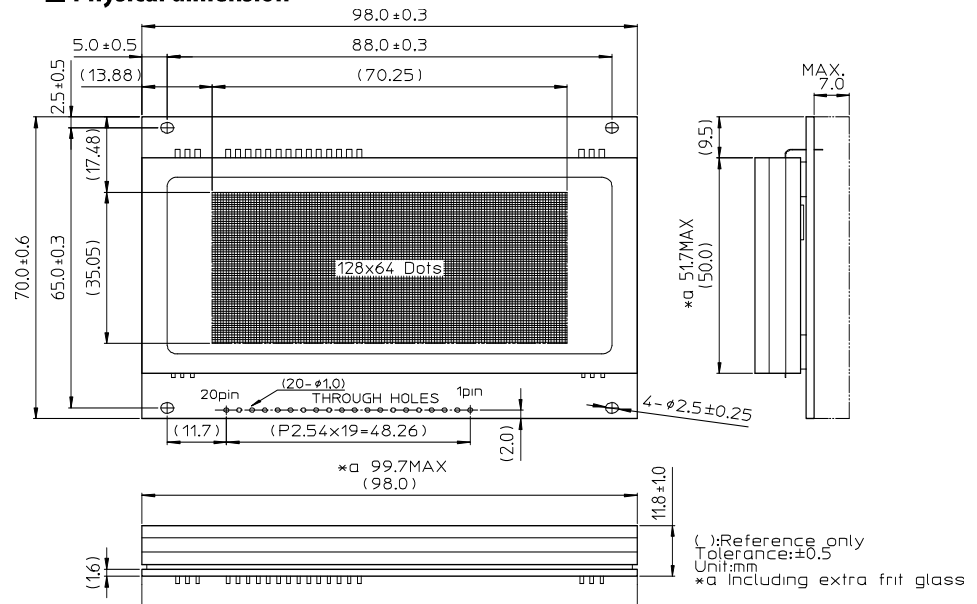
GU128X64E-UW1

SIMPLIFIED DATASHEET

■ Features

128x64 dot LCD
mounting hole position,
and LCD controller
ST7920(-0B) command
emulation.
No need to change
product case to switch
from LCD to the better
visibility and display
functionality of VFD.

■ Physical dimension



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Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage						
(RS(CS), R/W(SDI),	VIH1	0.7VCC	-	VCC	VDC	VCC-VSS=5.0V
E(SCK),DB0-DB7,(PSB)	VIL1	VSS	-	0.8		
(/RST)	VIH2	1.1	-	VCC	VDC	VCC-VSS=5.0V
	VIL2	VSS	-	0.5		
Logic Input Current	IIH1	-	-	6	μ ADC	VI = 5.0V
(DB0-DB7)	II L1	-	-	-30	μ ADC	VI = 0V
(RS(SCK),R/W(SDI),PSB)	IIH2	-	-	3	μ ADC	VI = 5.0V
	II L2	-	-	-30	μ ADC	VI = 0V
(E(SCLK))	IIH3	-	-	30	μ ADC	VI = 5.0V
	II L3	-	-	-3	μ ADC	VI = 0V
(/RST)	IIH4	-	-	0.4	mADC	VI = 5.0V
	II L4	-	-	-30	μ ADC	VI = 0V
Power supply voltage	V _{CC} -V _{SS}	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Output Voltage	VOH	3.8	-	-	VDC	IOH= -8mA
	VOL	-	-	0.5		IOH=8mA
Power Supply Current 1	ICC1	-	670	800	mADC	All dots ON
Power Supply Current 2	ICC2	-	510	610	mADC	All dots OFF
Power Supply Current 3	ICC3	-	30	36	mADC	Display power OFF
Power Consumption		-	3.4	4.0	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m ² Min. (1,000 cd/m ² Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-50 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	539m/s ² (55G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	8,192 (128 x 64)
Display Area	70.25 mm x 35.05 mm
Dot Size (X x Y)	0.4 mm x 0.4 mm
Dot Pitch (X x Y)	0.55 mm x 0.55 mm
Weight	Approximately 115 g

■ Interface

Parallel(CMOS), Synchronous Serial (CMOS)

■ Pin Assignment Parallel(Serial)

Pin No.	Signal	Pin No.	Signal
1	Vss	11	DB4
2	Vcc	12	DB5
3	NC	13	DB6
4	RS (CS)	14	DB7
5	R/W (SDI)	15	PSB
6	E (SCLK)	16	NC
7	DB0	17	/RST
8	DB1	18	NC
9	DB2	19	NC
10	DB3	20	NC

■ Selectable Font

Parameter	
Character font type	8 x 16 ASCII, International 16 x 16 Simplified Chinese
Number of char.	16 x 4 by 8 x 16 dot ASCII 8 x 4 by 16 x 16 dot Chinese

■ Functions

Parameter
Character display
Scroll display action
Reverse display function
Bit image display
Character download function
ST7920(-0B) Command Emulation
etc.