

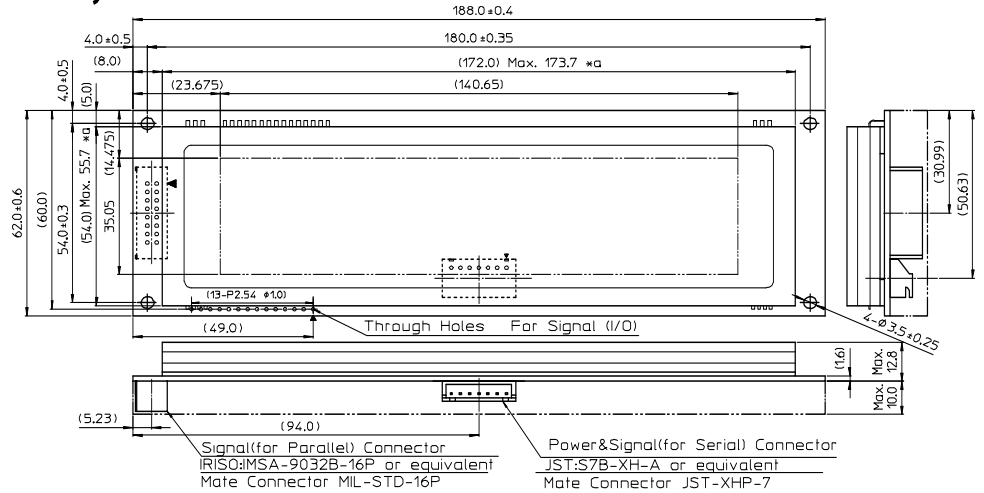
# GU256X64E-3900B

## SIMPLIFIED DATASHEET

### Features

An even larger VFD, with larger display area. Select a suitable type for embedded application.

### Physical dimension



\*a Included extra frit glass.  
Unit:mm  
():Reference Only

### Get full specification



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### Specifications

#### Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	4.75	5.00	5.25	VDC	

#### Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
<b>Parallel I/F</b>						
Logic input current	I <sub>PIH</sub>	-	-	1.0	μADC	-
D0-D7 /WR	I <sub>PIH</sub>	-	-	-200	μADC	-
Logic input voltage	V <sub>PIH</sub>	0.8VCC	-	VCC	VDC	-
D0-D7 /WR	V <sub>PIH</sub>	0	-	0.2VCC	VDC	-
Logic output voltage	V <sub>POH</sub>	3.5	-	VCC	VDC	I <sub>OH</sub> =-10 μA
RDY	V <sub>POL</sub>	0	-	0.6	VDC	I <sub>OL</sub> =4mA
<b>RS-232 I/F</b>						
Logic input voltage	V <sub>SIH</sub>	3	-	15	VDC	-
RXD, DSR	V <sub>SIL</sub>	-15	-	-3	VDC	-
Logic output voltage	V <sub>SOH</sub>	5	-	-	VDC	RL=3KΩ
RXD, DSR	V <sub>SOL</sub>	-	-	-5	VDC	-
Logic input Impedance	R <sub>SI</sub>	3	-	7	KΩ	-
<b>General-purpose I/O port</b>						
Power Supply Current 1	ICC1	-	1.16	1.50	ADC	All dots ON
Power Supply Current 2	ICC2	-	0.84	1.09	ADC	All dots OFF
Power Supply Current 3	ICC3	-	80	120	mADC	Display power OFF
Power Consumption	-	-	5.8	7.5	W	All dots ON

#### Optical Specifications

Parameter	Value
Luminance	350 cd/m <sup>2</sup> Min. (700 cd/m <sup>2</sup> Typ.)
Color of illumination	Green (Blue-Green)

#### Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +70 degrees celsius
Storage Temperature	-40 ~ +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)	392m/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

Parameter	Value
Number of Dots	16,384 (256 x 64)
Display Area	140.65 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	About 210 g

#### Interface

Parallel(CMOS), Asynchronous Serial (RS232), I/O port

#### Pin Assignment

Pin No.	Signal	Pin No.	Signal
1	D7	2	D6
3	D5	4	D4
5	D3	6	D2
7	D1	8	D0
9	GND	10	/WR
11	GND	12	RDY
13	GND	14	GND
15	VCC	16	VCC

#### (Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	RXD	4800bps
2	DTR	9600bps
3	DSR	19200bps
4	TXD	38400bps*
5	TEST	57600bps
6	VCC	115200bps
7	GND	(*:Default setting)

(General-purpose I/O port: Abbreviation)

#### Selectable Font

Parameter	Value
ASCII, KANA	All Font Size
International	6 x 8 / 8 x 16 / 12 x 24 / 16 x 32 dot
2-byte character	16 x 16 dot
Japanese	32 x 32 dot
Character numbers	42 x 8 by 6 x 8 dot ASCII
	21 x 2 by 12 x 24 dot ASCII
	16 x 4 by 16 x 16 dot 2-byte character
	8 x 2 by 32 x 32 dot Japanese

#### Functions

Parameter	Value
Variable Character display	Variable Action Commands
Scroll function	Line / BOX Draw
Display Power Auto ON/OFF	AND/OR/XOR Mixture display
User Windows function	Program Macro function
I/O Port Control Function	Graphic DMA mode
Bit image by dot	
Variable stored settings	
etc.	



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