GU384X32L-3900B

SIMPLIFIED DATASHEET

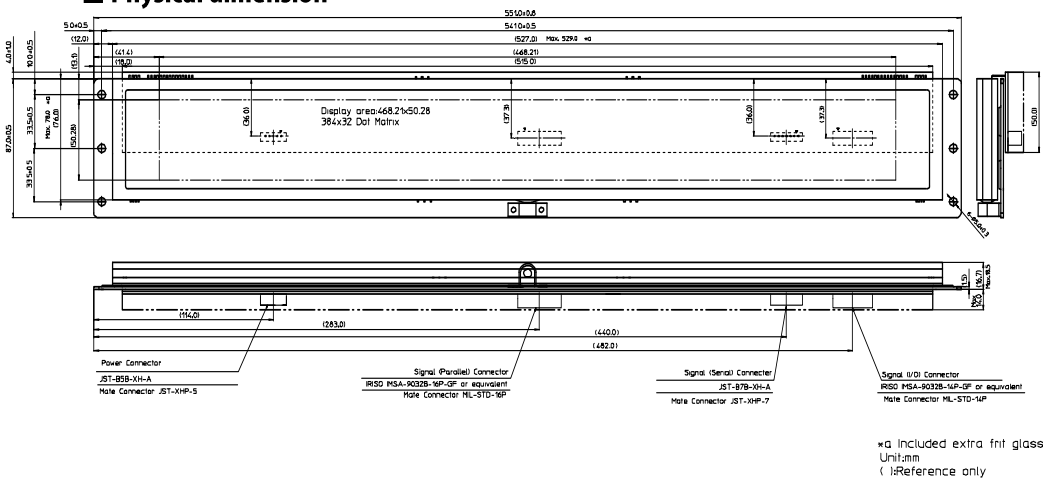
■ Features

VFD module with largest class VFD, over 450mm display area. Can display large characters, for excellent visibility from a distance. Very suitable for indoor message board.

Get full specification

Click here to go to request form.

■ Physical dimension



*a Included extra frit glass
Unit:mm
( ):Reference only

Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC1	4.75	5.00	5.25	VDC	-
	VCC2	22.8	24.0	25.2	VDC	-

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Parallel IF						
Logic input current	IpIH	-	-	1.0	μADC	-
D0-D7,/WR	IpIL	-	-	-200	μADC	-
Logic input voltage	VpIH	0.8VCC1	-	VCC1	VDC	-
D0-D7,/WR	VpIL	0	-	0.2VCC1	VDC	-
Logic output voltage	VpOH	3.5	-	VCC1	VDC	IOH=-10μA
RDY	VpOL	0	-	0.6	VDC	IOL=4mA
RS-232 I/F						
Logic input voltage	VsIH	3	-	15	VDC	-
RXD, DSR	VsIL	-15	-	-3	VDC	-
Logic output voltage	VsOH	5	-	-	VDC	RL=3KΩ
RXD, DSR	VsOL	-	-	-5	VDC	
Logic input Impedance						
RXD, DSR	RsIN	3	-	7	KΩ	-
General-purpose I/O port						Abbreviation
Power Supply Current 1	ICC1	-	60	120	mADC	All dots ON
Power Supply Current 2	ICC2-1	-	3	8	mADC	Display power OFF
	ICC2-2	-	450	600	mADC	All dots OFF
	ICC2-3	-	600	800	mADC	All dots ON
Power Consumption		-	15	20	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	300 cd/m^2 Min.
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	12,288 (384 x 32)
Display Area	468.21 mm x 50.28 mm
Dot Size (X x Y)	0.95 mm x 1.3 mm
Dot Pitch (X x Y)	1.22 mm x 1.58 mm
Weight	About 1,200 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)

(Powr connecter)

Pin No.	Signal
1	VCC1
2	GND
3	VCC2
4	GND
5	TEST

(General-purpose I/O port:Abbreviation)

■Selectable Font

Parameter	*ANK(Alphabet, Numeric, Kana)
ANK	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	32x32
Character numbers	64 x 4 by 6 x 8 dot ASCII
	32 x 2 by 12 x 24 dot ASCII
	24x 2 by 16 x 16 dot 2-byte character
	12 x 1 by 32 x 32 dot Japanese

■ Functions

Parameter	
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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