

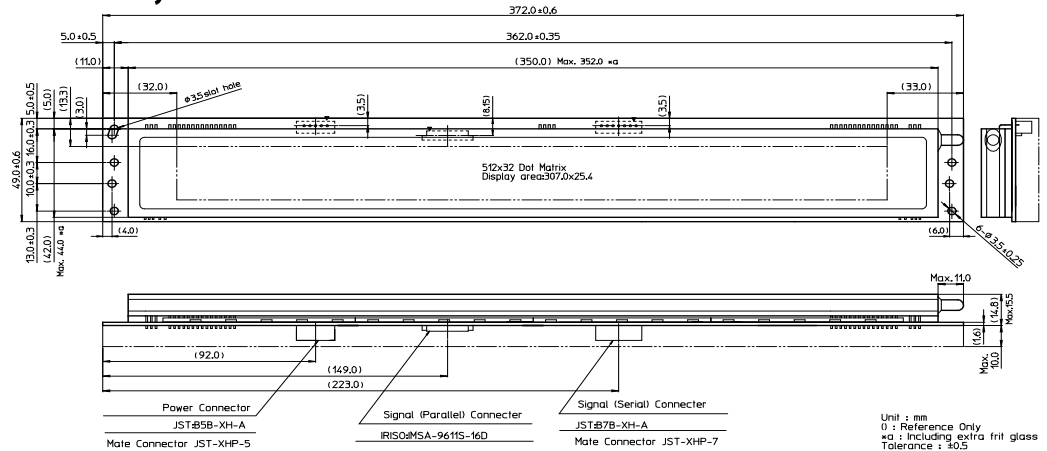
GU512X32H-3940B

SIMPLIFIED DATASHEET

Features

Higher resolution VFD - 512x32 dot model in same size as GU256X16M. Can display more information, or finely detailed font patterns. LED back light model.

Physical dimension



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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 I/F						
Logic input current	I _{pIH}	-	-	1.0	μADC	-
D0-D7,/WR	I _{pIL}	-	-	-200	μADC	-
Logic input voltage	V _{pIH}	0.8VCC1	-	VCC1	VDC	-
D0-D7,/WR	V _{pIL}	0	-	0.2VCC1	VDC	-
Logic output voltage	V _{pOH}	3.5	-	VCC1	VDC	I _{OH} =-10 μA
RDY	V _{pOL}	0	-	0.6	VDC	I _{OL} =4mA
RS-232 I/F						
Logic input voltage	V _{sIH}	3	-	15	VDC	-
RXD, DSR	V _{sIL}	-15	-	-3	VDC	-
Logic output voltage	V _{sOH}	5	-	-	VDC	R _L =3KΩ
RXD, DSR	V _{sOL}	-	-	-5	VDC	-
Logic input Impedance	R _{sIN}	3	-	7	KΩ	-
Power Supply Current 1	ICC1-1	-	110	150	mADC	All LED OFF
5V	ICC1-2	-	600	900	mADC	All LED ON
Power Supply Current 2	ICC2-1	-	3	8	mADC	Display power OFF
24V	ICC2-2	-	170	250	mADC	All dots OFF
	ICC2-3	-	230	330	mADC	All dots ON
Power Consumption		-	8.5	12.4	W	All dots ON

Optical Specifications

Parameter	Value
Luminance	350 cd/m ² Min.
Color of illumination (VFD)	Green (Blue-Green)
(LED)	Blue, Red, Green

Environmental Specifications

Parameter	Value
Operating Temperature	0 ~ +50 degrees C (LED ON) / -40 ~ +70 degrees C (LED OFF)
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 ² (40G) 9ms X-Y-Z, 3 times each direction

Physical Specifications

Parameter	Value
Number of Dots	16,384 (512×32)
Display Area	307.0 mm x 25.4 mm
Dot Size (X x Y)	0.4 mm x 0.6 mm
Dot Pitch (X x Y)	0.6 mm x 0.8 mm
Weight	About 330 g

Interface

Parallel (CMOS), Asynchronous Serial (RS232)

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	NC	16	NC

(Asynchronous Serial)

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

(Power connector)

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

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	32x32
Character numbers	85 x 4 by 6 x 8 dot ASCII 42 x 2 by 12x24 dot ASCII 32x 2 by 16x16 dot 2-byte character 16 x 1 by 32x32 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
LED backlight control	etc.