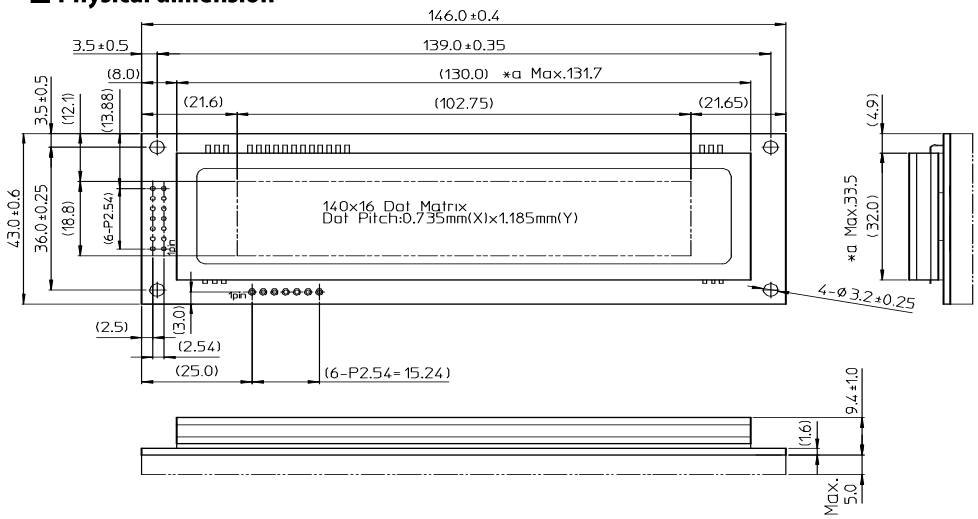
GU140X16J-7900B

SIMPLIFIED DATASHEET

■ Features

VFD module larger than GU140X16G, using a larger VFD. Choose this if the number of dots is sufficient, but a larger display is desired.

■ Physical dimension



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
'L' Logic Input Current						
D0-D7,/WR,/RD	IIL1	-	-	-0.15	mA	VIN=0V
/RESET	IIL2	-	-	-0.6	mA	VIN=0V
'H' Logic Input Current						
D0-D7,/WR,/RD,/RESET	IIH	-	-	1.0	μADC	VIN=5V
Logic Input Voltage	VIH	0.8VCC	-	VCC	VDC	-
D0-D7,/WR,/RD,/RESET	VIL	0	-	0.2VCC	VDC	-
Logic Output Voltage	VOH	3.8	-	VCC	VDC	IOH=-1.5mA
D7(Busy flag), PBUSY	VOL	0	-	0.6	VDC	IOL=1.6mA
Logic input resistance						
SIN	RIN	3	-	-	KΩ	-
Logic Input Voltage	VIH	3.0	-	+15	VDC	-
SIN	VIL	-15	-	0.5	VDC	-
Logic Output Voltage	VOH	4.0	-	VCC	VDC	RL=3KΩ
SBUSY	VOL	0	-	0.5	VDC	RL=3KΩ
Power Supply Current 1	ICC-1	-	500	650	mADC	All dots ON
Power Supply Current 2	ICC-2	-	390	510	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	25	35	mADC	Display power OFF
Power Consumption		-	2.50	3.25	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (900 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-60 ~ +85 degrees (Under 168 hours)/-40 ~ +85 degrees (Or more)
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Storage 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	2,240 (140 x 16)
Display Area	102.75 mm x 18.80 mm
Dot Size (X x Y)	0.585 mm x 1.025 mm
Dot Pitch (X x Y)	0.735 mm x 1.185 mm
Weight	About 74 g

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	VCC
3	NC	4	RS
5	/WR	6	/RD
7	D0	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(PBUSY)

(Asynchronous Serial)

Pin No.	Signal
1	VCC
2	SIN
3	GND
4	SBUSY
5	NC
6	/RESET
7	NC

Baud Rate Setting
9600bps
19200bps
38400bps*
115200bps
(*:Default setting)

■Selectable Font

Parameter		*ANK(Alphabet, Numeric, Kana)
Character font type	5 x 7	ANK, International
	8 x 16	ANK, International
	16 x 16	2-byte character
Character width	Fixed/Proportional character format 1&2	
Character numbers	20 x 2 by 5 x 7 dot ASCII	
	23 x 2 by 5 x 7 dot Proportional	
	8 x 1 by 16 x16 dot 2-byte character	

■ Functions

Parameter
Control command
Scroll display action
Proportional Font function
User-Windows function
AND/OR/XOR Mixture display
Reverse display
Dot unit real-time bit image display
FROM bit image definition
Download character function
Font Magnification function
etc.

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