

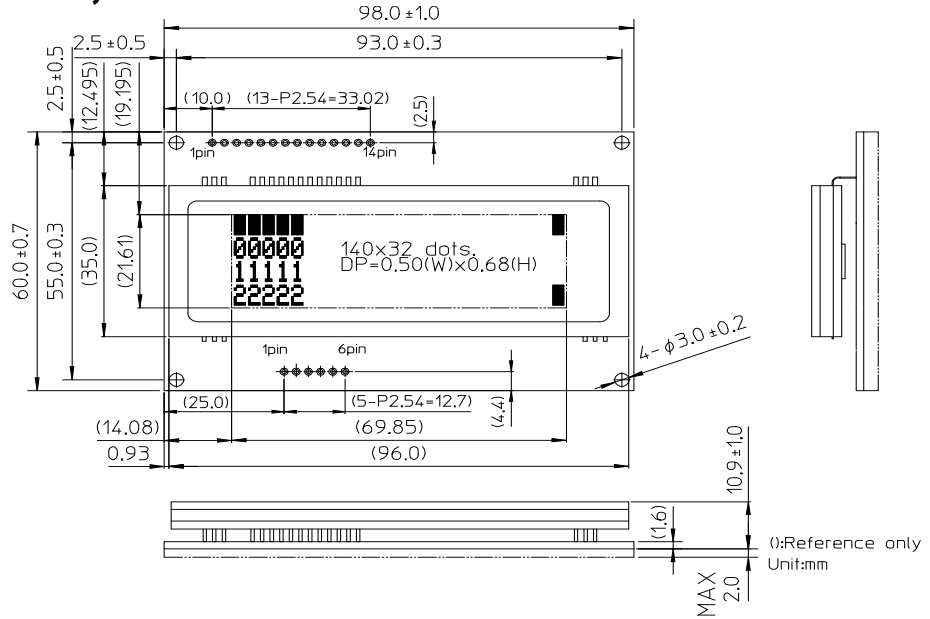
# GU140X32F-7903

## SIMPLIFIED DATASHEET

### ■ Features

4 line simultaneous display capable wide screen VFD module. Same size and shape as LCD, for easy drop-in replacement. 3.3V power model and reduced-size PCB slim-type models are also available.

### ■ Physical dimension



### Get full specification



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## 仕様

### ■ 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 SIN,SCK/RESET	IIL2	-	-	-0.6	mA	VIN=0V
'H' Logic Input Current SIN,SCK/RESET	IiH	-	-	1.0	μA	VIN=5V
Logic Input Voltage SIN,SCK/RESET	VIH	0.8VCC	-	VCC	VDC	-
	VIL	0	-	0.2VCC	VDC	-
Logic Output Voltage SBUSY	VOH	3.8	-	VCC	VDC	IOH=-1.5mA
	VOL	0	-	0.6	VDC	IOL=1.6mA
Power Supply Current 1	ICC-1	-	400	520	mADC	All dots ON
Power Supply Current 2	ICC-2	-	330	430	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	35	45	mADC	Display power OFF
Power Consumption		-	2.0	2.6	W	All dots ON

### ■ Optical Specifications

Parameter	Value
Number of Dots	4,480 (140 x 32)
Character numbers	20 x 4 / Max23 x 4 by 5 x 7 dot ANK 8 x 2 by 16 x 16 dot 2-byte character
Display Area	69.85mm x 21.61 mm
Dot Size (X x Y)	0.35 mm x 0.53 mm
Dot Pitch (X x Y)	0.5 mm x 0.68 mm
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 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
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/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

### ■ Character display

Parameter	Value
Number of Dots	140 x 32 dots
Character font type	5 x 7 ANK, International font 8 x 16 ANK, International font 16 x 16 2-byte character
Character width Attribution Weight	Fixed/Proportional character format 1&2 Character magnify, Reverse About 64 g

### ■ Interface

Sync/Asynchronous Serial (CMOS)

### ■ Pin Assignment ( Synchronous Serial)

Pin No.	Signal
1	Vcc
2	SIN
3	GND
4	SBUSY
5	SCK
6	/RESET

### (Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*:Default setting)
6	/RESET	

### ■ Functions

Parameter	Value
Control command	Scroll display action
	Proportional Font function
	User-Windows function
	AND/OR/XOR Mixture display
	Reverse display
	Bit image display
	FROM bit image definition
	Character download function
	etc.

